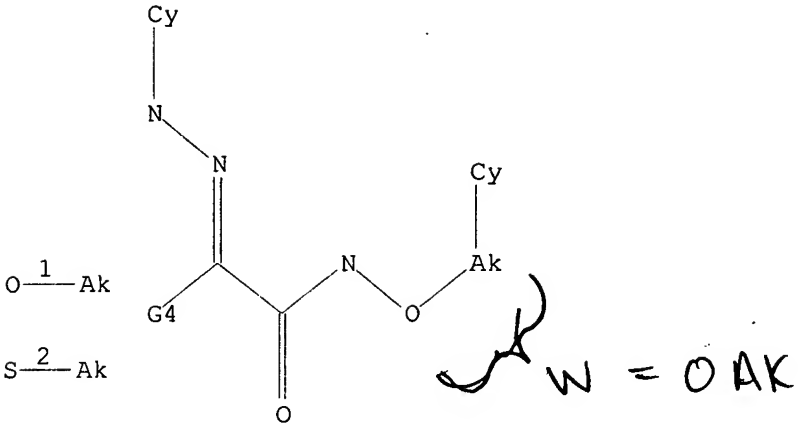

G1

G2

G3

G4 H,CN,N,X,Ak,[@1],[@2]

Structure attributes must be viewed using STN Express query preparation.

=> s l1 full
FULL SEARCH INITIATED 18:04:53 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 506 TO ITERATE

100.0% PROCESSED 506 ITERATIONS 4 ANSWERS
SEARCH TIME: 00.00.01

L2 4 SEA SSS FUL L1

=> fil caplus
COST IN U.S. DOLLARS SINCE FILE ENTRY TOTAL SESSION
FULL ESTIMATED COST 167.38 167.59

FILE 'CAPLUS' ENTERED AT 18:05:43 ON 26 JUL 2006
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FILE COVERS 1907 - 26 Jul 2006 VOL 145 ISS 5
FILE LAST UPDATED: 25 Jul 2006 (20060725/ED)

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=> s l2
L3 3 L2

=> d ibib abs hitstr 1-3

L3 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2003:570701 CAPLUS
DOCUMENT NUMBER: 139:129416
TITLE: Insecticides containing active hydrazone derivatives and novel hydrazone derivatives
INVENTOR(S): Iwata, Shinji; Okui, Shuko; Suzuki, Shigeru; Fukuchi, Toshiki
PATENT ASSIGNEE(S): Nihon Nohyaku Co., Ltd., Japan; Suwa, Akiyuki
SOURCE: PCT Int. Appl., 121 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

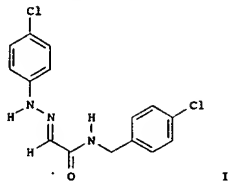
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003059064	A1	20030724	WO 2003-JP152	20030110
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
JP 2004091451	A2	20040325	JP 2002-262256	20020909
AU 2003201856	A1	20030730	AU 2003-201856	20030110
EP 1470752	A1	20041027	EP 2003-700511	20030110
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
NZ 534175	A	20050624	NZ 2003-534175	20030110
US 2005203149	A1	20050915	US 2004-500925	20040727

PRIORITY APPLN. INFO.:
JP 2002-3830 A 20020110
JP 2002-190275 A 20020708
JP 2002-262256 A 20020909
WO 2003-JP152 W 20030110

OTHER SOURCE(S): MARPAT 139:129416
GI

Instant

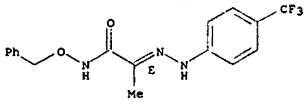
L3 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



I

AB Insecticides contain as the active ingredient novel hydrazone derivs. represented by the formula AX1NN:CZC(:Y)NX2WQ, wherein A and Q are each aryl or heterocyclyl; W is O, aminylene, alkylene, oxyalkylene, or alkyleneoxy; X1 and X2 are each H, alkyl, alkenyl, alkynyl, aryl, heterocyclyl, formyl, acyl, alkoxycarbonyl, aryloxycarbonyl, heterocyclyloxycarbonyl, alkylsulfinyl, arylsulfinyl, heterocyclylsulfinyl, alkylsulfonyl, arylsulfonyl, or heterocyclylsulfonyl;
Y is O or S; and Z is H, halo, cyano, alkyl, alkenyl, alkynyl, amino, alkoxy, or alkylthio, with the proviso that each group may be substituted.
Thus, I at 500 ppm showed 100% insecticidal activity against cabbage moth (Plutella) larvae.
IT 565214-10-0 565214-11-1
RL: AGR (Agricultural use); BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study); USES (Uses)
(insecticides containing novel hydrazone derivs.)
RN 565214-10-0 CAPLUS
CN Propanamide, N-(phenylmethoxy)-2-[[4-(trifluoromethyl)phenyl]hydrazono]-, (2E)- (9CI) (CA INDEX NAME)

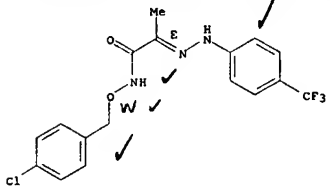
Double bond geometry as shown.



RN 565214-11-1 CAPLUS
CN Propanamide, N-[(4-chlorophenyl)methoxy]-2-[[4-(trifluoromethyl)phenyl]hydrazono]-, (2E)- (9CI) (CA INDEX NAME)

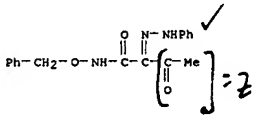
Double bond geometry as shown.

L3 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



REFERENCE COUNT: 18 THERE ARE 18 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1972:526375 CAPLUS
DOCUMENT NUMBER: 77:126375
TITLE: Ketene and its derivatives. XLVIII. Reaction of diketene with hydroxylamine
AUTHOR(S): Kato, Tetsuzo; Katagiri, Nobuya; Minami, Nobuyoshi
CORPORATE SOURCE: Pharm. Inst., Tohoku Univ., Yamanaka, Japan
SOURCE: Chemical & Pharmaceutical Bulletin (1972), 20(7), 1368-73
CODEN: CPBTAL; ISSN: 0009-2363
DOCUMENT TYPE: Journal
LANGUAGE: English
AB The reaction of diketene with hydroxylamines was reinvestigated. NH2OH, O-methylhydroxylamine and O-benzylhydroxylamine reacted with 2 equimolar amts. of diketene in the presence of Et3N to give the corresponding 1-substituted 5-acetyl-6-hydroxy-4-methyl-2(1H)-pyridones; i.e., 1-hydroxy, 1-methoxy, and 1-benzyloxy derivs. Treatment of O-benzylhydroxylamine with an equimolar amount of diketene in the absence of
Et3N yielded O-benzylacetoacetohydroxamic acid (I) in good yield. Catalytic reduction of I with Pd-C afforded an oily substance, which was treated with dry HCl to give 3-hydroxy-5-methylisoxazole.
IT 37030-07-2P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 37030-07-2 CAPLUS
CN Butanamide, 3-oxo-2-(phenylhydrazono)-N-(phenylmethoxy)- (9CI) (CA INDEX NAME)



L3 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1969:68254 CAPLUS
DOCUMENT NUMBER: 70:68254
TITLE: Reaction of N-(α-acetoxycinnamoyl)-N-hydroxy derivatives of DL-alanine esters. Formation of imidazolidinone and its transformations into pyrrolidinedione and oxazolidinone
AUTHOR(S): Chigira, Yasuhiro; Masaki, Mitsuo; Ohta, Masaki
CORPORATE SOURCE: Tokyo Inst. Technol., Tokyo, Japan
SOURCE: Bulletin of the Chemical Society of Japan (1969), 42(1), 228-32
CODEN: BCSJA8; ISSN: 0009-2673
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 70:68254

102

IDS #9

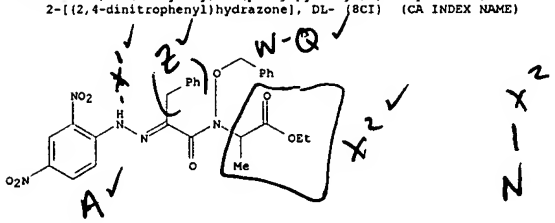
AB Treatment of N-benzyloxy-DL-alanine Et ester with α-acetoxycinnamoyl chloride (I) gave N-(α-acetoxycinnamoyl)-N-benzyloxy-DL-alanine Et ester (II), which was treated with aqueous NaHCO3, piperidine or HONH2 to afford N-benzyloxy-N-(phenylpyruvoyl)-DL-alanine Et ester (III).

Reaction of III or II with NH3 afforded 5-benzylidene-2-methyl-4-oxo-2-imidazolidinecarboxylic acid which was transformed into 5-methyl-4-phenyl-2,3-pyrrolidinedione (IV) by treatment with NaOH and into methyl 5-benzylidene-2-methyl-4-oxo-2-oxazoli-dinecarboxylate by treatment with methanolic HCl. IV was also derived from III or II by treatment with NaOH. N-(α-Acetoxycinnamoyl)-N-hydroxy-DL-alanine tert-Bu ester prepared from N-hydroxy-DL-alanine tert-Bu ester and I, was treated with aqueous NaOH to give tert-Bu 5-benzylidene-2-methyl-4-oxo-2-oxazoli-dinecarboxylate.

IT 21622-73-1P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 21622-73-1 CAPLUS

CN Alanine, N-(benzyloxy)-N-(phenylpyruvoyl)-, ethyl ester, 2-[(2,4-dinitrophenyl)hydrazone], DL- (8CI) (CA INDEX NAME)



1-2 1-5 1-22 2-3 2-4 4-8 5-6 6-7 8-9 9-11 15-17 16-18
exact/norm bonds :
1-5 1-22 2-3 2-4 4-8 5-6 6-7 8-9 9-11 15-17 16-18
exact bonds :
1-2

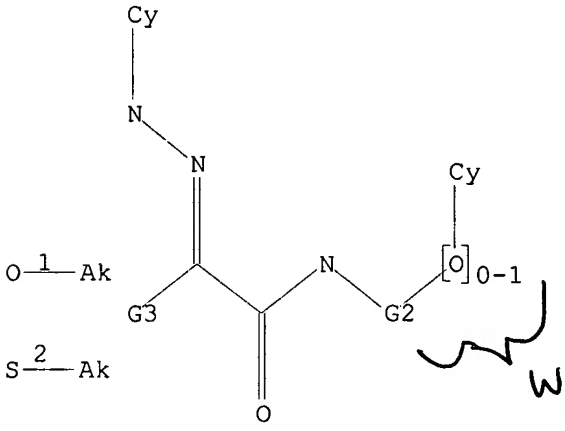
G2:O,Ak

G3:H,N,CN,X,Ak,[*1],[*2]

Match level :
1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:Atom 8:CLASS 9:CLASS
11:Atom 15:CLASS 16:CLASS 17:CLASS 18:CLASS 22:CLASS

L1 STRUCTURE UPLOADED

=> d
L1 HAS NO ANSWERS
L1 STR

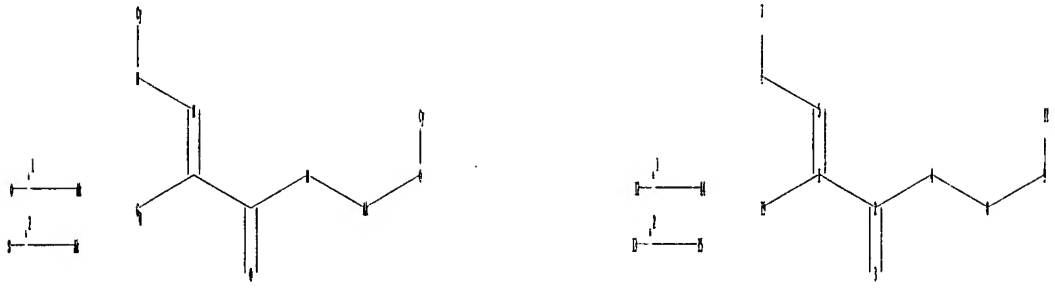


W = -O-
-Ak-
-Ak-O-

G1
G2 O,Ak
G3 H,N,CN,X,Ak,[@1],[@2]

Structure attributes must be viewed using STN Express query preparation.

=>
Uploading C:\Program Files\Stnexp\Queries\10500925\9.str



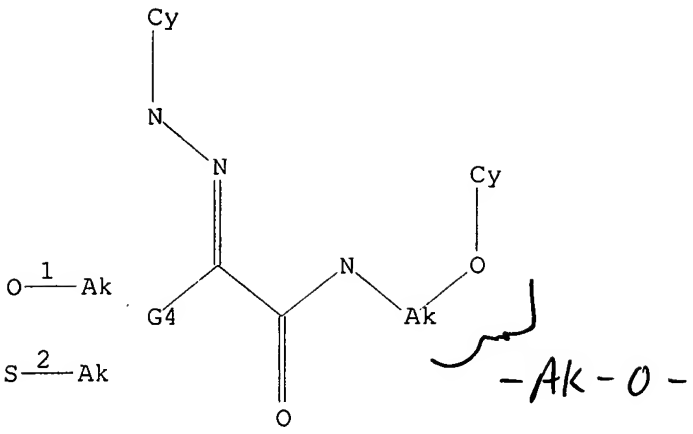
chain nodes :
1 2 3 4 5 6 7 8 9 11 12 13 14 15 19
chain bonds :
1-2 1-5 1-19 2-3 2-4 4-8 5-6 6-7 8-9 9-11 12-14 13-15
exact/norm bonds :
1-5 1-19 2-3 2-4 4-8 5-6 6-7 8-9 9-11 12-14 13-15
exact bonds :
1-2

G4:H,CN,N,X,Ak,[*1],[*2]

Match level :
1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:Atom 8:CLASS 9:CLASS
11:Atom 12:CLASS 13:CLASS 14:CLASS 15:CLASS 19:CLASS

L2 STRUCTURE UPLOADED

=> d
L2 HAS NO ANSWERS
L2 STR



-Ak-O- and X - see other search for N-O-Ak

G1

G2

G3

G4 H,CN,N,X,Ak,[@1],[@2]

Structure attributes must be viewed using STN Express query preparation.

=> s l1 full
FULL SEARCH INITIATED 15:53:38 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 54705 TO ITERATE

100.0% PROCESSED 54705 ITERATIONS 474 ANSWERS
SEARCH TIME: 00.00.03

L3 474 SEA SSS FUL L1

=> s l2 full
FULL SEARCH INITIATED 15:54:09 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 52753 TO ITERATE

100.0% PROCESSED 52753 ITERATIONS 4 ANSWERS
SEARCH TIME: 00.00.03

L4 4 SEA SSS FUL L2

=> fil caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	334.32	334.53

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FILE LAST UPDATED: 25 Jul 2006 (20060725/ED)

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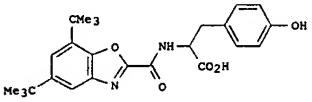
=> s l3
L5 36 L3

=> s l4
L6 1 L4

=> s l5 or l6
L7 36 L5 OR L6

=> d ibib abs hitstr 1-36

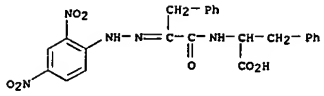
L7 ANSWER 1 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2005:1068816 CAPLUS
DOCUMENT NUMBER: 145:83257
TITLE: Highly lipophilic benzoxazoles with potential antibacterial activity
AUTHOR(S): Vinsova, Jarmila; Horak, Vaclav; Buchta, Vladimir; Kaustova, Jarmila
CORPORATE SOURCE: Department of Inorganic and Organic Chemistry, Faculty of Pharmacy Charles University, Hradec Kralove, 500 05, Czech Rep.
SOURCE: Molecules (2005), 10(7), 783-793
CODEN: MOLEFW; ISSN: 1420-3049
URL: http://www.mdpi.org/molecules/papers/10070783.pdf
PUBLISHER: Molecular Diversity Preservation International
DOCUMENT TYPE: Journal; (online computer file)
LANGUAGE: English
GI



I

AB A series of lipophilic 2-substituted 5,7-di-tert-butylbenzoxazoles, e.g., I, was prepared in average yields by the reaction of 3,5-di-tert-butyl-1,2-benzoquinone with amino acids and dipeptides bearing N-terminal glycine. Dipeptides having other N-terminal amino acids undergo oxidative deamination. 5,7-Di-tert-butylbenzoxazoles have shown activity against Mycobacterium tuberculosis and some nontuberculous strains where isoniazid has been inactive. Antifungal activity was mediocre.
IT 892550-60-6P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and characterization of keto(acyl)amino acids via Corey oxidative deamination of dipeptides carrying amino acid other than N-terminal glycine with (di)tert(butyl)benzoquinone)
RN 892550-60-6 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

L7 ANSWER 1 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



REFERENCE COUNT: 18 THERE ARE 18 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 2 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2004:1035670 CAPLUS
DOCUMENT NUMBER: 142:24636
TITLE: Azo dye and its tautomer
INVENTOR(S): Arioka, Daisuke; Fujita, Akinori
PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 57 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2004339273	A2	20041202	JP 2003-134490	20030513
PRIORITY APPLN. INFO.:			JP 2003-134490	20030513

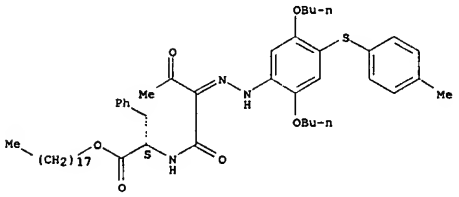
OTHER SOURCE(S): CASREACT 142:24636; MARPAT 142:24636
GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

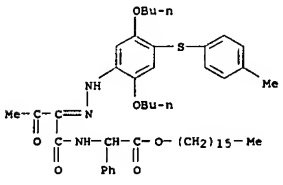
AB The azo dye and tautomer, useful for thermal transfer printing, ink-jet printing, etc., are those represented as R11C(O)C(:NNHAr1)C(O)NHC(R12)(R13)C(O)Y (R11 = alkyl, aryl, alkoxy, alkylamino, anilino; R12, R13 = H, alkyl, aryl; Y = alkoxy, alkylamino, anilino; Ar1 = aryl, heterocycle). Thus, reacting of phenylalanine, stearyl alc., and methanesulfonic acid, reacting of resulted phenylglycine-type ester and ketene dimer, and reacting of resulted coupler and a diazonium salt I gave the dye II (λmax 452 nm).
IT 799246-10-9P 799246-12-1P
RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(preparation of azo dye (tautomer))
RN 799246-10-9 CAPLUS
CN L-Phenylalanine, N-[2-[[2,5-dibutoxy-4-[(4-methylphenyl)thio]phenyl]hydrazono]-1,3-dioxobutyl]-, octadecyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.

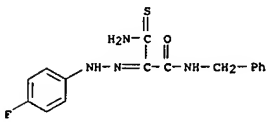
L7 ANSWER 2 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



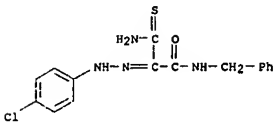
RN 799246-12-1 CAPLUS
CN Benzeneacetic acid, α-[[2-[[2,5-dibutoxy-4-[(4-methylphenyl)thio]phenyl]hydrazono]-1,3-dioxobutyl]amino]-, hexadecyl ester (9CI) (CA INDEX NAME)



L7 ANSWER 3 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2004:839047 CAPLUS
DOCUMENT NUMBER: 142:336301
TITLE: Oxidative cyclization of 2-arylhydrazonothioacetamides
AUTHOR(S): Vasil'eva, M. L.; Mukhacheva, M. V.; Bel'skaya, N. P.; Bakulev, V. A.; Anderson, R. J.; Groundwater, P. V.
CORPORATE SOURCE: Ural State Technical University, Yekaterinburg, 620002, Russia
SOURCE: Russian Journal of Organic Chemistry (Translation of Zhurnal Organicheskoi Khimii) (2004), 40(6), 818-828
CODEN: RJOCEQ; ISSN: 1070-4280
PUBLISHER: MAIK Nauka/Interperiodica Publishing
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 142:336301
AB Intramol. oxidative cyclization of 2-arylhydrazonothioacetamides was studied, and applicability limits of this reaction for the synthesis of 2-aryl-1,2,3-thiadiazol-5(2H)-imines were determined
IT 848391-11-7 848391-18-4 848391-25-3
RL: RCT (Reactant); RACT (Reactant or reagent)
(oxidative cyclization of 2-arylhydrazonothioacetamides to 2-aryl-1,2,3-thiadiazol-5(2H)-imines)
RN 848391-11-7 CAPLUS
CN Propanamide, 3-amino-2-[(4-fluorophenyl)hydrazono]-N-(phenylmethyl)-3-thioxo- (9CI) (CA INDEX NAME)

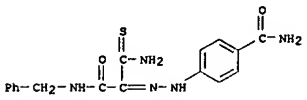


RN 848391-18-4 CAPLUS
CN Propanamide, 3-amino-2-[(4-chlorophenyl)hydrazono]-N-(phenylmethyl)-3-thioxo- (9CI) (CA INDEX NAME)



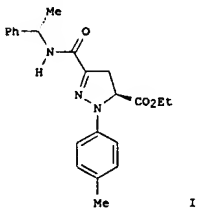
RN 848391-25-3 CAPLUS

L7 ANSWER 3 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
CN Benzamide, 4-[[2-amino-1-[[(phenylmethyl)amino]carbonyl]-2-thioxoethylidene]hydrazino]- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 34 THERE ARE 34 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE
FORMAT

L7 ANSWER 4 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2004:270941 CAPLUS
DOCUMENT NUMBER: 141:23469
TITLE: The first case of diastereoselective cycloadditions of enantiopure nitrilimines in aqueous media
AUTHOR(S): Molteni, Giorgio
CORPORATE SOURCE: Dipartimento di Chimica Organica e Industriale, Universita degli Studi di Milano, Milan, 20133, Italy
SOURCE: Tetrahedron: Asymmetry (2004), 15(7), 1077-1079
CODEN: TASYE3; ISSN: 0957-4166
PUBLISHER: Elsevier Science B.V.
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 141:23469
GI

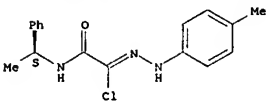


I

AB The diastereoselective cycloaddn. of enantiopure nitrilimines with Et acrylate were exploited in dry toluene and in aqueous sodium hydrogen carbonate as reaction media. Shorter reaction times and improved diastereoisomeric ratios of the resulting 5-ethoxycarbonyl-4,5-dihydropyrazoles, e.g., I, were observed in aqueous media.
IT 700358-71-0P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(stereoselective preparation of N-tolyldihydropyrazoledicarboxylic acid via stereoselective dipolar heterocycloaddn. of chiral N-(tolyl)oxo(α-methylbenzylamino)ethanehydrazonoyl chloride with Et acrylate followed by hydrolysis)
RN 700358-71-0 CAPLUS
CN Ethanehydrazonoyl chloride, N-(4-methylphenyl)-2-oxo-2-[[(1S)-1-phenylethyl]amino]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.

L7 ANSWER 4 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



REFERENCE COUNT: 15 THERE ARE 15 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE
FORMAT

L7 ANSWER 5 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2003:570701 CAPLUS
DOCUMENT NUMBER: 139:129416
TITLE: Insecticides containing active hydrazone derivatives and novel hydrazone derivatives
INVENTOR(S): Kawata, Shinji; Okui, Shuko; Suzuki, Shigeru; Fukuchi, Toshiki
PATENT ASSIGNEE(S): Nihon Nohyaku Co., Ltd., Japan; Suwa, Akiyuki
SOURCE: PCT Int. Appl., 121 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

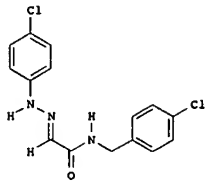
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003059064	A1	20030724	WO 2003-JP152	20030110
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
JP 2004091451	A2	20040325	JP 2002-262256	20020909
AU 2003201856	A1	20030730	AU 2003-201856	20030110
EP 1470752	A1	20041027	EP 2003-700517	20030110
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
NZ 534175	A	20050624	NZ 2003-534175	20030110
US 2005203149	A1	20050915	US 2004-500925	20040727

PRIORITY APPLN. INFO.:
JP 2002-3830 A 20020110
JP 2002-198275 A 20020708
JP 2002-262256 A 20020909
WO 2003-JP152 W 20030110

OTHER SOURCE(S): MARPAT 139:129416
GI

Instant App ✓

L7 ANSWER 5 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



I

AB Insecticides contain as the active ingredient novel hydrazone derivs. represented by the formula AX1NN:CZC(:Y)NX2WQ, wherein A and Q are each aryl or heterocyclyl; W is O, aminylene, alkylene, oxyalkylene, or alkyleneoxy; X1 and X2 are each H, alkyl, alkenyl, alkynyl, aryl, heterocyclyl, formyl, acyl, alkoxycarbonyl, aryloxycarbonyl, heterocyclyloxycarbonyl, alkylsulfinyl, arylsulfinyl, heterocyclylsulfinyl, alkylsulfonyl, arylsulfonyl, or heterocyclylsulfonyl; Y is O or S; and Z is H, halo, cyano, alkyl, alkenyl, alkynyl, amino, alkoxy, or alkylthio, with the proviso that each group may be substituted. Thus, I at 500 ppm showed 100% insecticidal activity against cabbage moth (Plutella) larvae.

IT 565211-28-1 565211-29-2 565211-30-5
565211-31-6 565211-33-8 565211-34-9
565211-35-0 565211-36-1 565211-37-2
565211-38-3 565211-39-4 565211-40-7
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565212-03-5 565212-04-6 565212-05-7

L7 ANSWER 5 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
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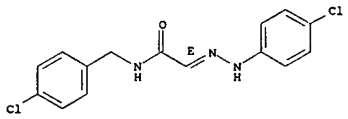
565213-76-5 565213-77-6 565213-78-7
565213-79-8
RL: AGR (Agricultural use); BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study); USES (Uses)
(insecticides contg. novel hydrazone derivs.)

RN 565211-28-1 CAPLUS
CN Acetamide, 2-[(4-chlorophenyl)hydrazono]-N-[(4-chlorophenyl)methyl]-, (2E)- (9CI) (CA INDEX NAME)

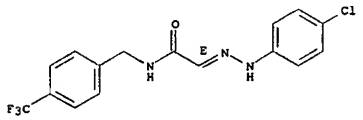
L7 ANSWER 5 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

Double bond geometry as shown.



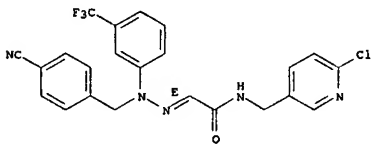
RN 565211-29-2 CAPLUS
CN Acetamide, 2-[(4-chlorophenyl)hydrazono]-N-[(4-(trifluoromethyl)phenyl]methyl]-, (2E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 565211-30-5 CAPLUS
CN Acetamide, N-[(6-chloro-3-pyridinyl)methyl]-2-[[(4-cyanophenyl)methyl][3-(trifluoromethyl)phenyl]hydrazono]-, (2E)- (9CI) (CA INDEX NAME)

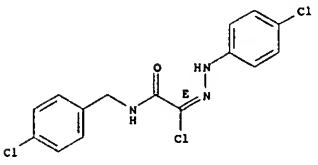
Double bond geometry as shown.



RN 565211-31-6 CAPLUS
CN Ethanehydrazonoyl chloride, N-(4-chlorophenyl)-2-[[(4-chlorophenyl)methyl]amino]-2-oxo-, (1E)- (9CI) (CA INDEX NAME)

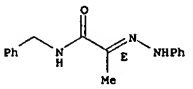
Double bond geometry as shown.

L7 ANSWER 5 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



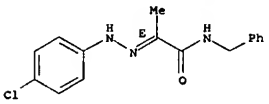
RN 565211-33-8 CAPLUS
CN Propanamide, 2-(phenylhydrazono)-N-(phenylmethyl)-, (2E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 565211-34-9 CAPLUS
CN Propanamide, 2-[(4-chlorophenyl)hydrazono]-N-(phenylmethyl)-, (2E)- (9CI) (CA INDEX NAME)

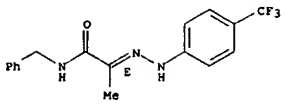
Double bond geometry as shown.



RN 565211-35-0 CAPLUS
CN Propanamide, N-(phenylmethyl)-2-[[4-(trifluoromethyl)phenyl]hydrazono]-, (2E)- (9CI) (CA INDEX NAME)

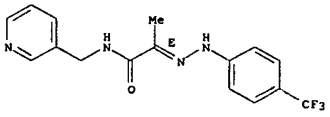
Double bond geometry as shown.

L7 ANSWER 5 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



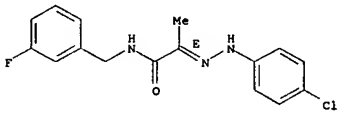
RN 565211-36-1 CAPLUS
CN Propanamide, N-(3-pyridinylmethyl)-2-[[4-(trifluoromethyl)phenyl]hydrazono]-, (2E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 565211-37-2 CAPLUS
CN Propanamide, 2-[(4-chlorophenyl)hydrazono]-N-[(3-fluorophenyl)methyl]-, (2E)- (9CI) (CA INDEX NAME)

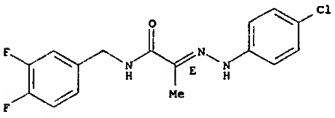
Double bond geometry as shown.



RN 565211-38-3 CAPLUS
CN Propanamide, 2-[(4-chlorophenyl)hydrazono]-N-[(3,4-difluorophenyl)methyl]-, (2E)- (9CI) (CA INDEX NAME)

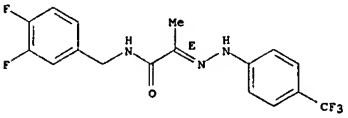
Double bond geometry as shown.

L7 ANSWER 5 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



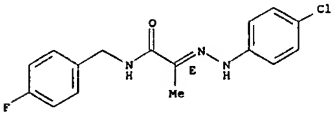
RN 565211-39-4 CAPLUS
CN Propanamide, N-[(3,4-difluorophenyl)methyl]-2-[[4-(trifluoromethyl)phenyl]hydrazono]-, (2E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



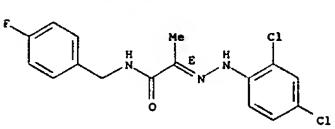
RN 565211-40-7 CAPLUS
CN Propanamide, 2-[(4-chlorophenyl)hydrazono]-N-[(4-fluorophenyl)methyl]-, (2E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 565211-41-8 CAPLUS
CN Propanamide, 2-[(2,4-dichlorophenyl)hydrazono]-N-[(4-fluorophenyl)methyl]-, (2E)- (9CI) (CA INDEX NAME)

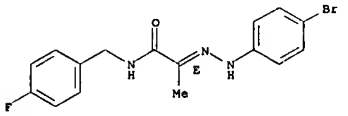
Double bond geometry as shown.



L7 ANSWER 5 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

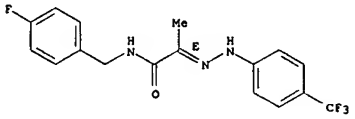
RN 565211-42-9 CAPLUS
CN Propanamide, 2-[(4-bromophenyl)hydrazono]-N-[(4-fluorophenyl)methyl]-, (2E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



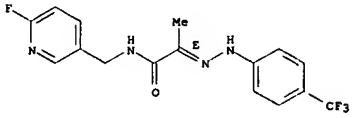
RN 565211-43-0 CAPLUS
CN Propanamide, N-[(4-fluorophenyl)methyl]-2-[[4-(trifluoromethyl)phenyl]hydrazono]-, (2E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 565211-44-1 CAPLUS
CN Propanamide, N-[(6-fluoro-3-pyridinyl)methyl]-2-[[4-(trifluoromethyl)phenyl]hydrazono]-, (2E)- (9CI) (CA INDEX NAME)

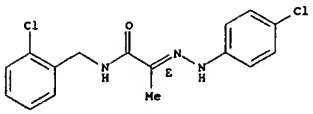
Double bond geometry as shown.



RN 565211-45-2 CAPLUS
CN Propanamide, 2-[(4-chlorophenyl)hydrazono]-N-[(2-chlorophenyl)methyl]-, (2E)- (9CI) (CA INDEX NAME)

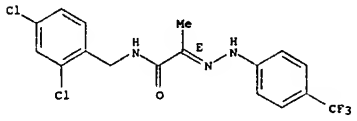
Double bond geometry as shown.

L7 ANSWER 5 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



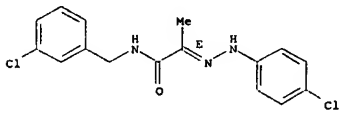
RN 565211-46-3 CAPLUS
CN Propanamide, N-[(2,4-dichlorophenyl)methyl]-2-[[4-(trifluoromethyl)phenyl]hydrazono]-, (2E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 565211-47-4 CAPLUS
CN Propanamide, 2-[(4-chlorophenyl)hydrazono]-N-[(3-chlorophenyl)methyl]-, (2E)- (9CI) (CA INDEX NAME)

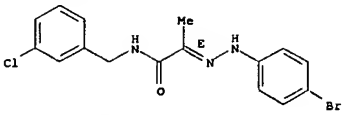
Double bond geometry as shown.



RN 565211-48-5 CAPLUS
CN Propanamide, 2-[(4-bromophenyl)hydrazono]-N-[(3-chlorophenyl)methyl]-, (2E)- (9CI) (CA INDEX NAME)

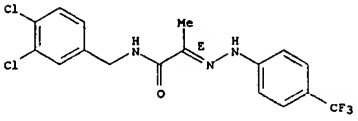
Double bond geometry as shown.

L7 ANSWER 5 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



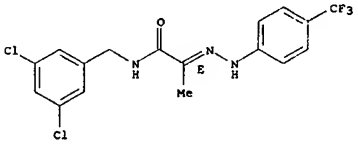
RN 565211-49-6 CAPLUS
CN Propanamide, N-[(3,4-dichlorophenyl)methyl]-2-[[4-(trifluoromethyl)phenyl]hydrazono]-, (2E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 565211-50-9 CAPLUS
CN Propanamide, N-[(3,5-dichlorophenyl)methyl]-2-[[4-(trifluoromethyl)phenyl]hydrazono]-, (2E)- (9CI) (CA INDEX NAME)

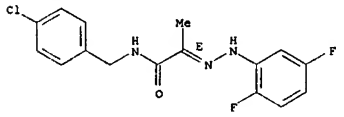
Double bond geometry as shown.



RN 565211-51-0 CAPLUS
CN Propanamide, N-[(4-chlorophenyl)methyl]-2-[(2,5-difluorophenyl)hydrazono]-, (2E)- (9CI) (CA INDEX NAME)

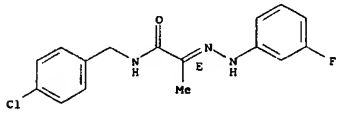
Double bond geometry as shown.

L7 ANSWER 5 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



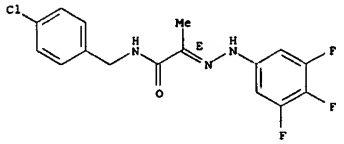
RN 565211-52-1 CAPLUS
CN Propanamide, N-[(4-chlorophenyl)methyl]-2-[(3-fluorophenyl)hydrazono]-, (2E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 565211-53-2 CAPLUS
CN Propanamide, N-[(4-chlorophenyl)methyl]-2-[(3,4,5-trifluorophenyl)hydrazono]-, (2E)- (9CI) (CA INDEX NAME)

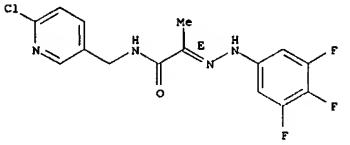
Double bond geometry as shown.



RN 565211-54-3 CAPLUS
CN Propanamide, N-[(6-chloro-3-pyridinyl)methyl]-2-[(3,4,5-trifluorophenyl)hydrazono]-, (2E)- (9CI) (CA INDEX NAME)

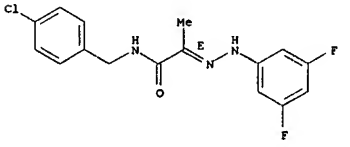
Double bond geometry as shown.

L7 ANSWER 5 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



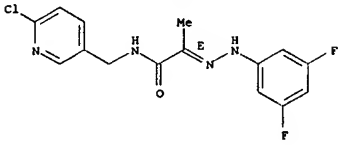
RN 565211-55-4 CAPLUS
CN Propanamide, N-[(4-chlorophenyl)methyl]-2-[(3,5-difluorophenyl)hydrazono]-, (2E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 565211-56-5 CAPLUS
CN Propanamide, N-[(6-chloro-3-pyridinyl)methyl]-2-[(3,5-difluorophenyl)hydrazono]-, (2E)- (9CI) (CA INDEX NAME)

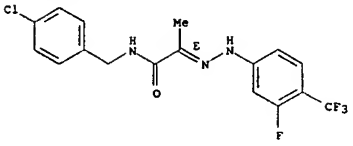
Double bond geometry as shown.



RN 565211-57-6 CAPLUS
CN Propanamide, N-[(4-chlorophenyl)methyl]-2-[[3-fluoro-4-(trifluoromethyl)phenyl]hydrazono]-, (2E)- (9CI) (CA INDEX NAME)

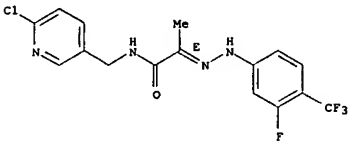
Double bond geometry as shown.

L7 ANSWER 5 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



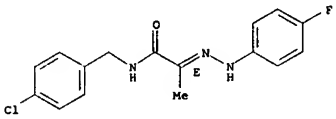
RN 565211-58-7 CAPLUS
CN Propanamide, N-[(6-chloro-3-pyridinyl)methyl]-2-[(3-fluoro-4-(trifluoromethyl)phenyl]hydrazono]-, (2E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 565211-59-8 CAPLUS
CN Propanamide, N-[(4-chlorophenyl)methyl]-2-[(4-fluorophenyl)hydrazono]-, (2E)- (9CI) (CA INDEX NAME)

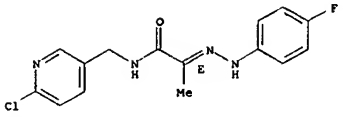
Double bond geometry as shown.



RN 565211-60-1 CAPLUS
CN Propanamide, N-[(6-chloro-3-pyridinyl)methyl]-2-[(4-fluorophenyl)hydrazono]-, (2E)- (9CI) (CA INDEX NAME)

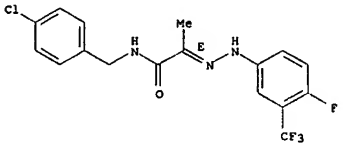
Double bond geometry as shown.

L7 ANSWER 5 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



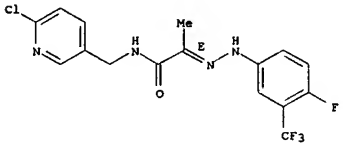
RN 565211-61-2 CAPLUS
CN Propanamide, N-[(4-chlorophenyl)methyl]-2-[[4-fluoro-3-(trifluoromethyl)phenyl]hydrazono]-, (2E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 565211-62-3 CAPLUS
CN Propanamide, N-[(6-chloro-3-pyridinyl)methyl]-2-[[4-fluoro-3-(trifluoromethyl)phenyl]hydrazono]-, (2E)- (9CI) (CA INDEX NAME)

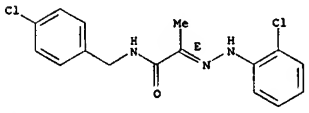
Double bond geometry as shown.



RN 565211-63-4 CAPLUS
CN Propanamide, 2-[(2-chlorophenyl)hydrazono]-N-[(4-chlorophenyl)methyl]-, (2E)- (9CI) (CA INDEX NAME)

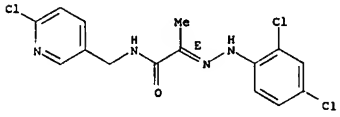
Double bond geometry as shown.

L7 ANSWER 5 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



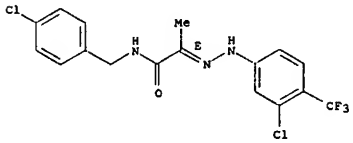
RN 565211-64-5 CAPLUS
CN Propanamide, N-[(6-chloro-3-pyridinyl)methyl]-2-[(2,4-dichlorophenyl)hydrazono]-, (2E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 565211-65-6 CAPLUS
CN Propanamide, N-[(4-chlorophenyl)methyl]-2-[[3-chloro-4-(trifluoromethyl)phenyl]hydrazono]-, (2E)- (9CI) (CA INDEX NAME)

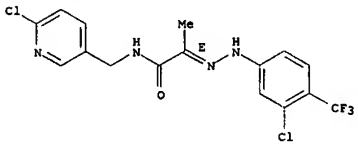
Double bond geometry as shown.



RN 565211-66-7 CAPLUS
CN Propanamide, N-[(6-chloro-3-pyridinyl)methyl]-2-[[3-chloro-4-(trifluoromethyl)phenyl]hydrazono]-, (2E)- (9CI) (CA INDEX NAME)

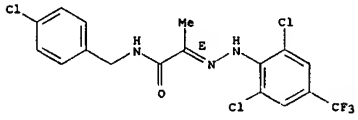
Double bond geometry as shown.

L7 ANSWER 5 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



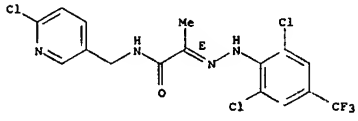
RN 565211-67-8 CAPLUS
CN Propanamide, N-[(4-chlorophenyl)methyl]-2-[[2,6-dichloro-4-(trifluoromethyl)phenyl]hydrazono]-, (2E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 565211-68-9 CAPLUS
CN Propanamide, N-[(6-chloro-3-pyridinyl)methyl]-2-[[2,6-dichloro-4-(trifluoromethyl)phenyl]hydrazono]-, (2E)- (9CI) (CA INDEX NAME)

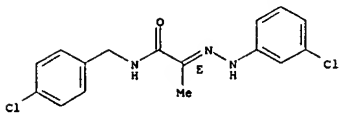
Double bond geometry as shown.



RN 565211-69-0 CAPLUS
CN Propanamide, 2-[(3-chlorophenyl)hydrazono]-N-[(4-chlorophenyl)methyl]-, (2E)- (9CI) (CA INDEX NAME)

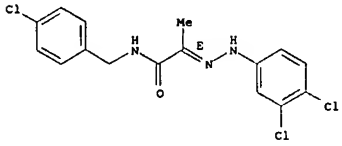
Double bond geometry as shown.

L7 ANSWER 5 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



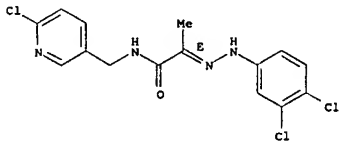
RN 565211-70-3 CAPLUS
CN Propanamide, N-[(4-chlorophenyl)methyl]-2-[(3,4-dichlorophenyl)hydrazono]-, (2E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 565211-71-4 CAPLUS
CN Propanamide, N-[(6-chloro-3-pyridinyl)methyl]-2-[(3,4-dichlorophenyl)hydrazono]-, (2E)- (9CI) (CA INDEX NAME)

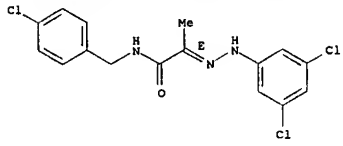
Double bond geometry as shown.



RN 565211-72-5 CAPLUS
CN Propanamide, N-[(4-chlorophenyl)methyl]-2-[(3,4,5-trichlorophenyl)hydrazono]-, (2E)- (9CI) (CA INDEX NAME)

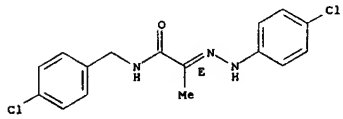
Double bond geometry as shown.

L7 ANSWER 5 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



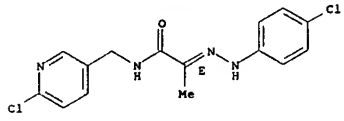
RN 565211-76-9 CAPLUS
CN Propanamide, 2-[(4-chlorophenyl)hydrazono]-N-[(4-chlorophenyl)methyl]-, (2E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



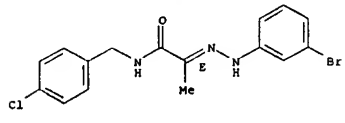
RN 565211-77-0 CAPLUS
CN Propanamide, 2-[(4-chlorophenyl)hydrazono]-N-[(6-chloro-3-pyridinyl)methyl]-, (2E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

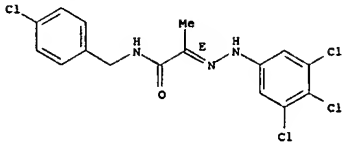


RN 565211-78-1 CAPLUS
CN Propanamide, 2-[(3-bromophenyl)hydrazono]-N-[(4-chlorophenyl)methyl]-, (2E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

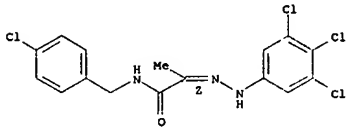


L7 ANSWER 5 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



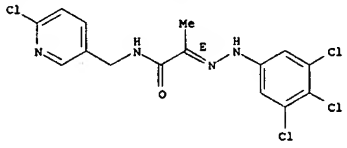
RN 565211-73-6 CAPLUS
CN Propanamide, N-[(4-chlorophenyl)methyl]-2-[(3,4,5-trichlorophenyl)hydrazono]-, (2Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 565211-74-7 CAPLUS
CN Propanamide, N-[(6-chloro-3-pyridinyl)methyl]-2-[(3,4,5-trichlorophenyl)hydrazono]-, (2E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



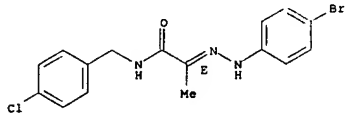
RN 565211-75-8 CAPLUS
CN Propanamide, N-[(4-chlorophenyl)methyl]-2-[(3,5-dichlorophenyl)hydrazono]-, (2E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

L7 ANSWER 5 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

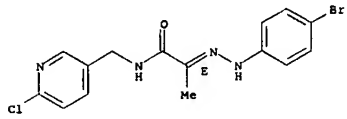
RN 565211-79-2 CAPLUS
CN Propanamide, 2-[(4-bromophenyl)hydrazono]-N-[(4-chlorophenyl)methyl]-, (2E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



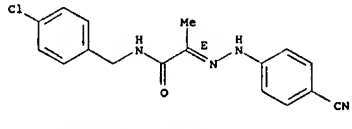
RN 565211-80-5 CAPLUS
CN Propanamide, 2-[(4-bromophenyl)hydrazono]-N-[(6-chloro-3-pyridinyl)methyl]-, (2E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 565211-81-6 CAPLUS
CN Propanamide, N-[(4-chlorophenyl)methyl]-2-[(4-cyanophenyl)hydrazono]-, (2E)- (9CI) (CA INDEX NAME)

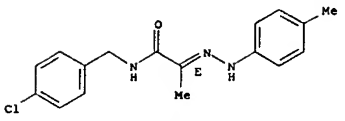
Double bond geometry as shown.



RN 565211-82-7 CAPLUS
CN Propanamide, N-[(4-chlorophenyl)methyl]-2-[(4-methylphenyl)hydrazono]-, (2E)- (9CI) (CA INDEX NAME)

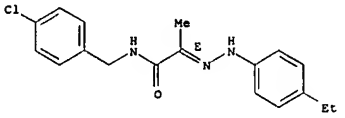
Double bond geometry as shown.

L7 ANSWER 5 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



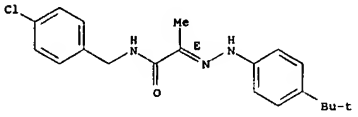
RN 565211-83-8 CAPLUS
CN Propanamide, N-[(4-chlorophenyl)methyl]-2-[(4-ethylphenyl)hydrazono]-, (2E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 565211-84-9 CAPLUS
CN Propanamide, N-[(4-chlorophenyl)methyl]-2-[[4-(1,1-dimethylethyl)phenyl]hydrazono]-, (2E)- (9CI) (CA INDEX NAME)

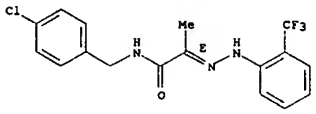
Double bond geometry as shown.



RN 565211-85-0 CAPLUS
CN Propanamide, N-[(4-chlorophenyl)methyl]-2-[[2-(trifluoromethyl)phenyl]hydrazono]-, (2E)- (9CI) (CA INDEX NAME)

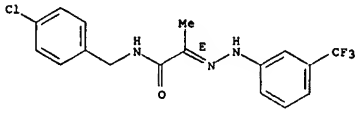
Double bond geometry as shown.

L7 ANSWER 5 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



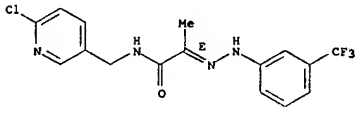
RN 565211-86-1 CAPLUS
CN Propanamide, N-[(4-chlorophenyl)methyl]-2-[[3-(trifluoromethyl)phenyl]hydrazono]-, (2E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 565211-87-2 CAPLUS
CN Propanamide, N-[(6-chloro-3-pyridinyl)methyl]-2-[[3-(trifluoromethyl)phenyl]hydrazono]-, (2E)- (9CI) (CA INDEX NAME)

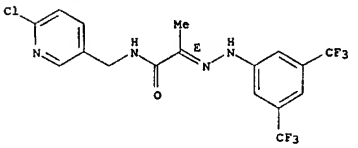
Double bond geometry as shown.



RN 565211-88-3 CAPLUS
CN Propanamide, 2-[[3,5-bis(trifluoromethyl)phenyl]hydrazono]-N-[(6-chloro-3-pyridinyl)methyl]-, (2E)- (9CI) (CA INDEX NAME)

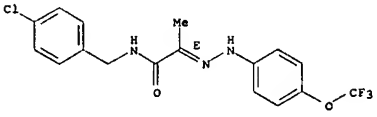
Double bond geometry as shown.

L7 ANSWER 5 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



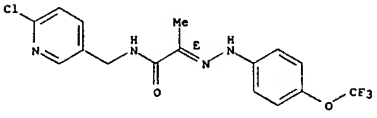
RN 565211-91-8 CAPLUS
CN Propanamide, N-[(4-chlorophenyl)methyl]-2-[[4-(trifluoromethoxy)phenyl]hydrazono]-, (2E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 565211-92-9 CAPLUS
CN Propanamide, N-[(6-chloro-3-pyridinyl)methyl]-2-[[4-(trifluoromethoxy)phenyl]hydrazono]-, (2E)- (9CI) (CA INDEX NAME)

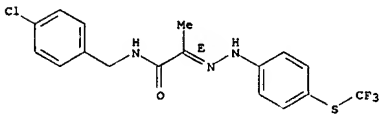
Double bond geometry as shown.



RN 565211-93-0 CAPLUS
CN Propanamide, N-[(4-chlorophenyl)methyl]-2-[[4-[(trifluoromethyl)thio]phenyl]hydrazono]-, (2E)- (9CI) (CA INDEX NAME)

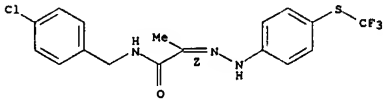
Double bond geometry as shown.

L7 ANSWER 5 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



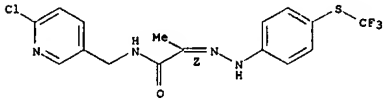
RN 565211-94-1 CAPLUS
CN Propanamide, N-[(4-chlorophenyl)methyl]-2-[[4-[(trifluoromethyl)thio]phenyl]hydrazono]-, (2Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



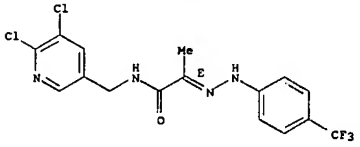
RN 565211-95-2 CAPLUS
CN Propanamide, N-[(6-chloro-3-pyridinyl)methyl]-2-[[4-[(trifluoromethyl)thio]phenyl]hydrazono]-, (2Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



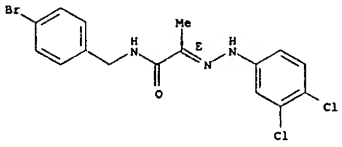
RN 565211-96-3 CAPLUS
CN Propanamide, N-[(5,6-dichloro-3-pyridinyl)methyl]-2-[[4-(trifluoromethyl)phenyl]hydrazono]-, (2E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



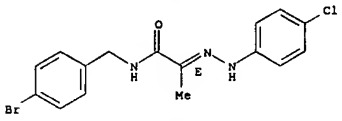
L7 ANSWER 5 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
RN 565211-97-4 CAPLUS
CN Propanamide,
N-[(4-bromophenyl)methyl]-2-[(3,4-dichlorophenyl)hydrazono]-,
(2E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



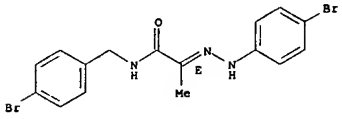
RN 565211-98-5 CAPLUS
CN Propanamide, N-[(4-bromophenyl)methyl]-2-[(4-chlorophenyl)hydrazono]-,
(2E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 565211-99-6 CAPLUS
CN Propanamide, 2-[(4-bromophenyl)hydrazono]-N-[(4-bromophenyl)methyl]-,
(2E)- (9CI) (CA INDEX NAME)

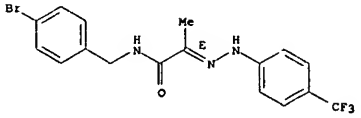
Double bond geometry as shown.



RN 565212-00-2 CAPLUS
CN Propanamide,
N-[(4-bromophenyl)methyl]-2-[[4-(trifluoromethyl)phenyl]hydra
zono]-, (2E)- (9CI) (CA INDEX NAME)

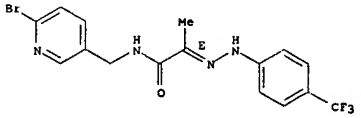
L7 ANSWER 5 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

Double bond geometry as shown.



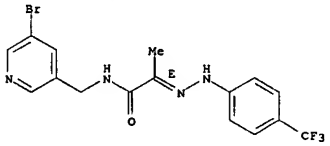
RN 565212-01-3 CAPLUS
CN Propanamide, N-[(6-bromo-3-pyridinyl)methyl]-2-[[4-
(trifluoromethyl)phenyl]hydrazono]-, (2E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 565212-02-4 CAPLUS
CN Propanamide, N-[(5-bromo-3-pyridinyl)methyl]-2-[[4-
(trifluoromethyl)phenyl]hydrazono]-, (2E)- (9CI) (CA INDEX NAME)

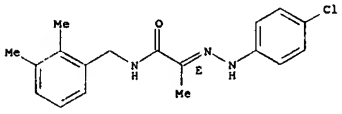
Double bond geometry as shown.



RN 565212-03-5 CAPLUS
CN Propanamide,
2-[(4-chlorophenyl)hydrazono]-N-[(2,3-dimethylphenyl)methyl]-
, (2E)- (9CI) (CA INDEX NAME)

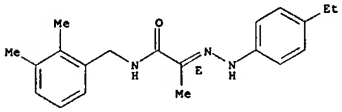
Double bond geometry as shown.

L7 ANSWER 5 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



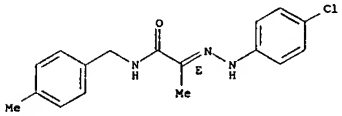
RN 565212-04-6 CAPLUS
CN Propanamide,
N-[(2,3-dimethylphenyl)methyl]-2-[(4-ethylphenyl)hydrazono]-,
(2E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



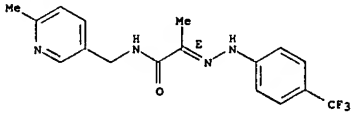
RN 565212-05-7 CAPLUS
CN Propanamide, 2-[(4-chlorophenyl)hydrazono]-N-[(4-methylphenyl)methyl]-,
(2E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 565212-06-8 CAPLUS
CN Propanamide, N-[(6-methyl-3-pyridinyl)methyl]-2-[[4-
(trifluoromethyl)phenyl]hydrazono]-, (2E)- (9CI) (CA INDEX NAME)

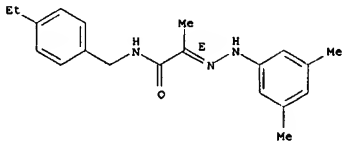
Double bond geometry as shown.



L7 ANSWER 5 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

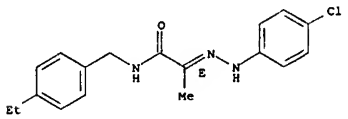
RN 565212-07-9 CAPLUS
CN Propanamide,
2-[(3,5-dimethylphenyl)hydrazono]-N-[(4-ethylphenyl)methyl]-,
(2E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



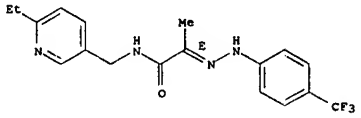
RN 565212-08-0 CAPLUS
CN Propanamide, 2-[(4-chlorophenyl)hydrazono]-N-[(4-ethylphenyl)methyl]-,
(2E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 565212-09-1 CAPLUS
CN Propanamide, N-[(6-ethyl-3-pyridinyl)methyl]-2-[[4-
(trifluoromethyl)phenyl]hydrazono]-, (2E)- (9CI) (CA INDEX NAME)

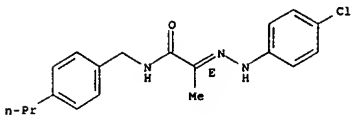
Double bond geometry as shown.



RN 565212-10-4 CAPLUS
CN Propanamide, 2-[(4-chlorophenyl)hydrazono]-N-[(4-propylphenyl)methyl]-,
(2E)- (9CI) (CA INDEX NAME)

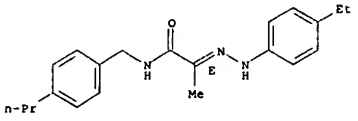
Double bond geometry as shown.

L7 ANSWER 5 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



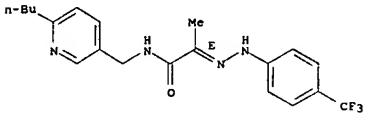
RN 565212-11-5 CAPLUS
CN Propanamide, 2-[(4-ethylphenyl)hydrazono]-N-[(4-propylphenyl)methyl]-, (2E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 565212-12-6 CAPLUS
CN Propanamide, N-[(6-butyl-3-pyridinyl)methyl]-2-[[4-(trifluoromethyl)phenyl]hydrazono]-, (2E)- (9CI) (CA INDEX NAME)

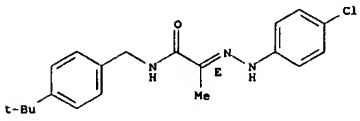
Double bond geometry as shown.



RN 565212-13-7 CAPLUS
CN Propanamide, 2-[(4-chlorophenyl)hydrazono]-N-[[4-(1,1-dimethylethyl)phenyl]methyl]-, (2E)- (9CI) (CA INDEX NAME)

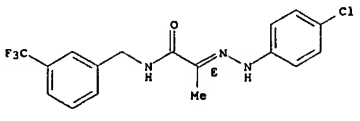
Double bond geometry as shown.

L7 ANSWER 5 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



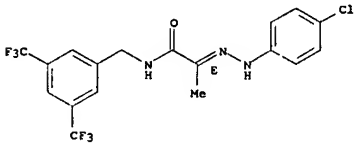
RN 565212-14-8 CAPLUS
CN Propanamide, 2-[(4-chlorophenyl)hydrazono]-N-[[3-(trifluoromethyl)phenyl]methyl]-, (2E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 565212-15-9 CAPLUS
CN Propanamide, N-[[3,5-bis(trifluoromethyl)phenyl]methyl]-2-[(4-chlorophenyl)hydrazono]-, (2E)- (9CI) (CA INDEX NAME)

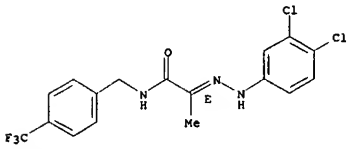
Double bond geometry as shown.



RN 565212-16-0 CAPLUS
CN Propanamide, 2-[(3,4-dichlorophenyl)hydrazono]-N-[[4-(trifluoromethyl)phenyl]methyl]-, (2E)- (9CI) (CA INDEX NAME)

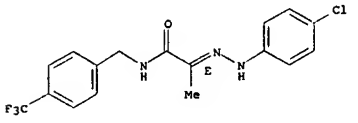
Double bond geometry as shown.

L7 ANSWER 5 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



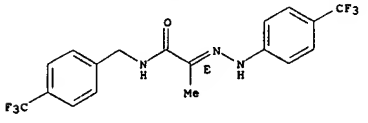
RN 565212-17-1 CAPLUS
CN Propanamide, 2-[(4-chlorophenyl)hydrazono]-N-[[4-(trifluoromethyl)phenyl]methyl]-, (2E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 565212-18-2 CAPLUS
CN Propanamide, 2-[[4-(trifluoromethyl)phenyl]hydrazono]-N-[[4-(trifluoromethyl)phenyl]methyl]-, (2E)- (9CI) (CA INDEX NAME)

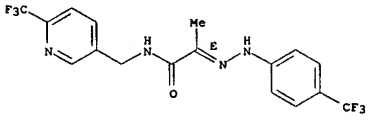
Double bond geometry as shown.



RN 565212-19-3 CAPLUS
CN Propanamide, 2-[[4-(trifluoromethyl)phenyl]hydrazono]-N-[(6-(trifluoromethyl)-3-pyridinyl]methyl]-, (2E)- (9CI) (CA INDEX NAME)

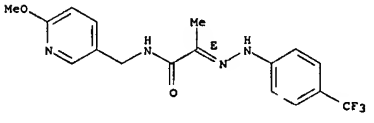
Double bond geometry as shown.

L7 ANSWER 5 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



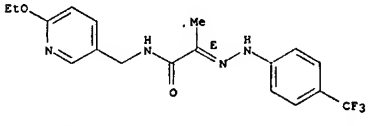
RN 565212-21-7 CAPLUS
CN Propanamide, N-[(6-methoxy-3-pyridinyl)methyl]-2-[[4-(trifluoromethyl)phenyl]hydrazono]-, (2E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



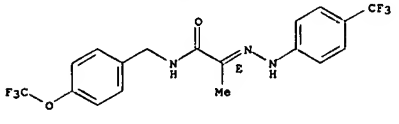
RN 565212-22-8 CAPLUS
CN Propanamide, N-[(6-ethoxy-3-pyridinyl)methyl]-2-[[4-(trifluoromethyl)phenyl]hydrazono]-, (2E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



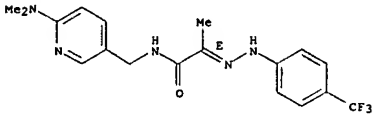
RN 565212-23-9 CAPLUS
CN Propanamide, N-[[4-(trifluoromethoxy)phenyl]methyl]-2-[[4-(trifluoromethyl)phenyl]hydrazono]-, (2E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



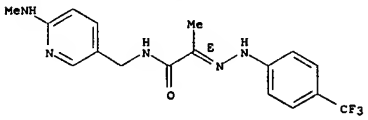
L7 ANSWER 5 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
RN 565212-24-0 CAPLUS
CN Propanamide, N-[[6-(dimethylamino)-3-pyridinyl]methyl]-2-[[4-(trifluoromethyl)phenyl]hydrazono]-, (2E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



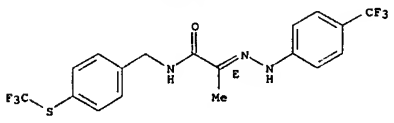
RN 565212-25-1 CAPLUS
CN Propanamide, N-[[6-(methylamino)-3-pyridinyl]methyl]-2-[[4-(trifluoromethyl)phenyl]hydrazono]-, (2E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 565212-26-2 CAPLUS
CN Propanamide, 2-[[4-(trifluoromethyl)phenyl]hydrazono]-N-[[4-[(trifluoromethyl)thio]phenyl]methyl]-, (2E)- (9CI) (CA INDEX NAME)

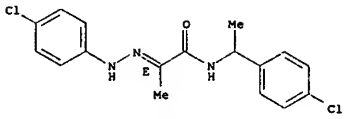
Double bond geometry as shown.



RN 565212-27-3 CAPLUS
CN Propanamide, N-[1-(4-chlorophenyl)ethyl]-2-[(4-chlorophenyl)hydrazono]-, (2E)- (9CI) (CA INDEX NAME)

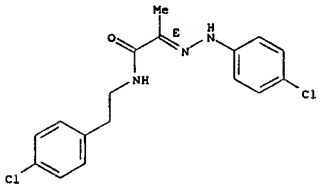
Double bond geometry as shown.

L7 ANSWER 5 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



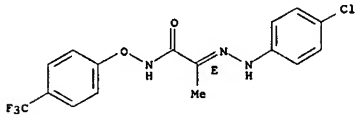
RN 565212-28-4 CAPLUS
CN Propanamide, N-[2-(4-chlorophenyl)ethyl]-2-[(4-chlorophenyl)hydrazono]-, (2E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 565212-34-2 CAPLUS
CN Propanamide, 2-[(4-chlorophenyl)hydrazono]-N-[4-(trifluoromethyl)phenoxy]-, (2E)- (9CI) (CA INDEX NAME)

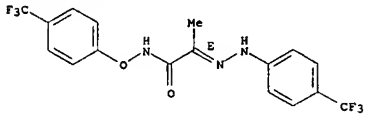
Double bond geometry as shown.



RN 565212-35-3 CAPLUS
CN Propanamide, N-[4-(trifluoromethyl)phenoxy]-2-[[4-(trifluoromethyl)phenyl]hydrazono]-, (2E)- (9CI) (CA INDEX NAME)

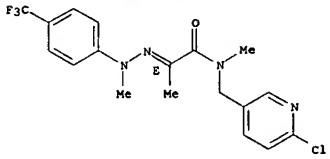
Double bond geometry as shown.

L7 ANSWER 5 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



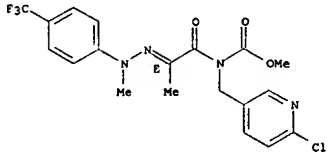
RN 565212-38-6 CAPLUS
CN Propanamide, N-[(6-chloro-3-pyridinyl)methyl]-N-methyl-2-[methyl[4-(trifluoromethyl)phenyl]hydrazono]-, (2E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 565212-39-7 CAPLUS
CN Carbamic acid, [(6-chloro-3-pyridinyl)methyl][(2E)-2-[methyl[4-(trifluoromethyl)phenyl]hydrazono]-1-oxopropyl]-, methyl ester (9CI) (CA INDEX NAME)

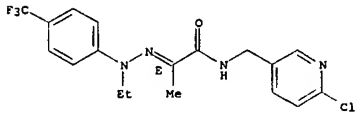
Double bond geometry as shown.



RN 565212-40-0 CAPLUS
CN Propanamide, N-[(6-chloro-3-pyridinyl)methyl]-2-[ethyl[4-(trifluoromethyl)phenyl]hydrazono]-, (2E)- (9CI) (CA INDEX NAME)

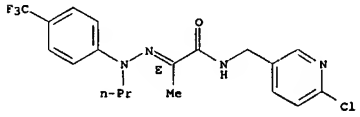
Double bond geometry as shown.

L7 ANSWER 5 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



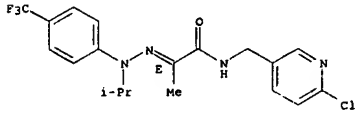
RN 565212-41-1 CAPLUS
CN Propanamide, N-[(6-chloro-3-pyridinyl)methyl]-2-[propyl[4-(trifluoromethyl)phenyl]hydrazono]-, (2E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



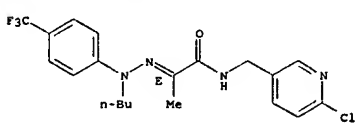
RN 565212-42-2 CAPLUS
CN Propanamide, N-[(6-chloro-3-pyridinyl)methyl]-2-[(1-methylethyl)[4-(trifluoromethyl)phenyl]hydrazono]-, (2E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 565212-43-3 CAPLUS
CN Propanamide, 2-[butyl[4-(trifluoromethyl)phenyl]hydrazono]-N-[(6-chloro-3-pyridinyl)methyl]-, (2E)- (9CI) (CA INDEX NAME)

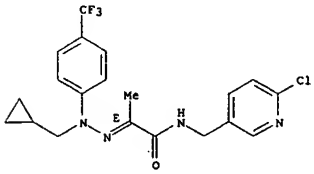
Double bond geometry as shown.



L7 ANSWER 5 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

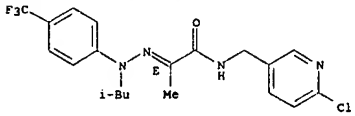
RN 565212-44-4 CAPLUS
CN Propanamide, N-[(6-chloro-3-pyridinyl)methyl]-2-[(cyclopropylmethyl)[4-(trifluoromethyl)phenyl]hydrazono]-, (2E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



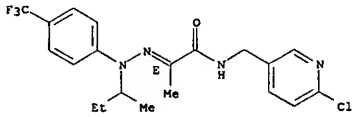
RN 565212-45-5 CAPLUS
CN Propanamide, N-[(6-chloro-3-pyridinyl)methyl]-2-[(2-methylpropyl)[4-(trifluoromethyl)phenyl]hydrazono]-, (2E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



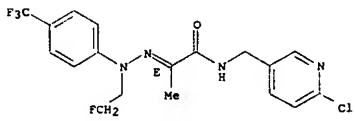
RN 565212-46-6 CAPLUS
CN Propanamide, N-[(6-chloro-3-pyridinyl)methyl]-2-[(1-methylpropyl)[4-(trifluoromethyl)phenyl]hydrazono]-, (2E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



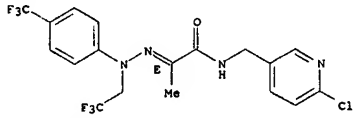
RN 565212-47-7 CAPLUS
CN Propanamide, N-[(6-chloro-3-pyridinyl)methyl]-2-[2-propenyl[4-

L7 ANSWER 5 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



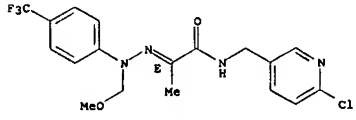
RN 565212-51-3 CAPLUS
CN Propanamide,
N-[(6-chloro-3-pyridinyl)methyl]-2-[(2,2,2-trifluoroethyl)[4-(trifluoromethyl)phenyl]hydrazono]-, (2E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



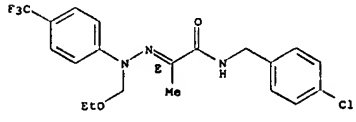
RN 565212-52-4 CAPLUS
CN Propanamide, N-[(6-chloro-3-pyridinyl)methyl]-2-[(methoxymethyl)[4-(trifluoromethyl)phenyl]hydrazono]-, (2E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



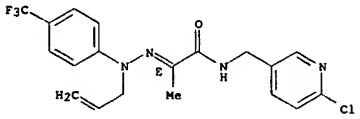
RN 565212-53-5 CAPLUS
CN Propanamide, N-[(4-chlorophenyl)methyl]-2-[(ethoxymethyl)[4-(trifluoromethyl)phenyl]hydrazono]-, (2E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



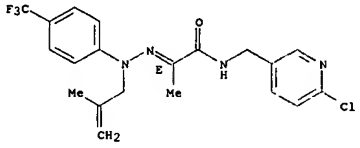
L7 ANSWER 5 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
(trifluoromethyl)phenyl]hydrazono]-, (2E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



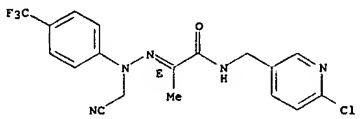
RN 565212-48-8 CAPLUS
CN Propanamide, N-[(6-chloro-3-pyridinyl)methyl]-2-[(2-methyl-2-propenyl)[4-(trifluoromethyl)phenyl]hydrazono]-, (2E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 565212-49-9 CAPLUS
CN Propanamide, N-[(6-chloro-3-pyridinyl)methyl]-2-[(cyanomethyl)[4-(trifluoromethyl)phenyl]hydrazono]-, (2E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



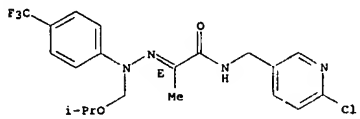
RN 565212-50-2 CAPLUS
CN Propanamide, N-[(6-chloro-3-pyridinyl)methyl]-2-[(2-fluoroethyl)[4-(trifluoromethyl)phenyl]hydrazono]-, (2E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

L7 ANSWER 5 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

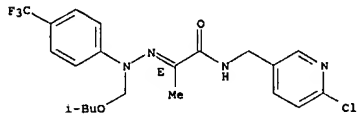
RN 565212-55-7 CAPLUS
CN Propanamide, N-[(6-chloro-3-pyridinyl)methyl]-2-[[(1-methylethoxy)methyl][4-(trifluoromethyl)phenyl]hydrazono]-, (2E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



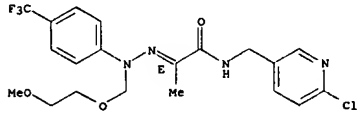
RN 565212-56-8 CAPLUS
CN Propanamide, N-[(6-chloro-3-pyridinyl)methyl]-2-[[(2-methylpropoxy)methyl][4-(trifluoromethyl)phenyl]hydrazono]-, (2E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 565212-57-9 CAPLUS
CN Propanamide, N-[(6-chloro-3-pyridinyl)methyl]-2-[[(2-methoxyethoxy)methyl][4-(trifluoromethyl)phenyl]hydrazono]-, (2E)- (9CI) (CA INDEX NAME)

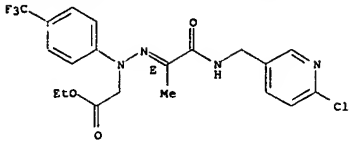
Double bond geometry as shown.



RN 565212-58-0 CAPLUS
CN Acetic acid, [(2E)-[2-[[(6-chloro-3-pyridinyl)methyl]amino]-1-methyl-2-oxoethylidene][4-(trifluoromethyl)phenyl]hydrazino]-, ethyl ester (9CI) (CA INDEX NAME)

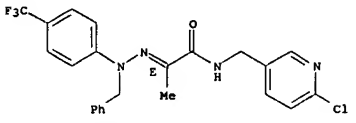
Double bond geometry as shown.

L7 ANSWER 5 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



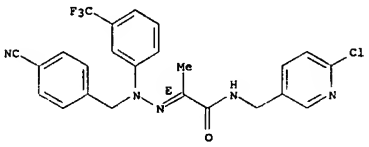
RN 565212-59-1 CAPLUS
CN Propanamide, N-[(6-chloro-3-pyridinyl)methyl]-2-[(phenylmethyl)[4-(trifluoromethyl)phenyl]hydrazono]-, (2E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 565212-60-4 CAPLUS
CN Propanamide, N-[(6-chloro-3-pyridinyl)methyl]-2-[[(4-cyanophenyl)methyl][3-(trifluoromethyl)phenyl]hydrazono]-, (2E)- (9CI) (CA INDEX NAME)

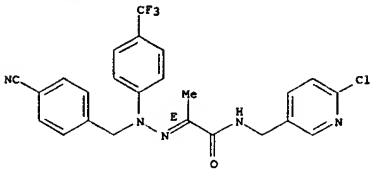
Double bond geometry as shown.



RN 565212-61-5 CAPLUS
CN Propanamide, N-[(6-chloro-3-pyridinyl)methyl]-2-[[(4-cyanophenyl)methyl][4-(trifluoromethyl)phenyl]hydrazono]-, (2E)- (9CI) (CA INDEX NAME)

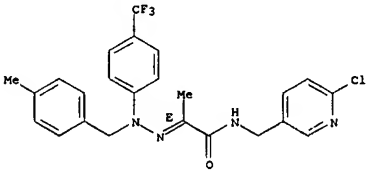
Double bond geometry as shown.

L7 ANSWER 5 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



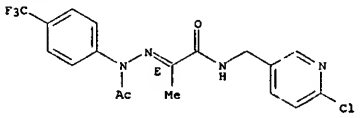
RN 565212-62-6 CAPLUS
CN Propanamide, N-[(6-chloro-3-pyridinyl)methyl]-2-[[(4-methylphenyl)methyl][4-(trifluoromethyl)phenyl]hydrazono]-, (2E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 565212-63-7 CAPLUS
CN Acetic acid, (2E)-[2-[[(6-chloro-3-pyridinyl)methyl]amino]-1-methyl-2-oxoethylidene][4-(trifluoromethyl)phenyl]hydrazide (9CI) (CA INDEX NAME)

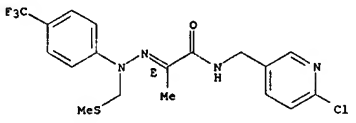
Double bond geometry as shown.



RN 565212-64-8 CAPLUS
CN Propanamide, N-[(6-chloro-3-pyridinyl)methyl]-2-[[(methylthio)methyl][4-(trifluoromethyl)phenyl]hydrazono]-, (2E)- (9CI) (CA INDEX NAME)

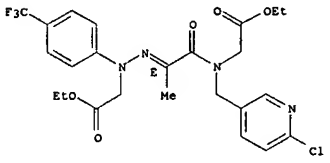
L7 ANSWER 5 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

Double bond geometry as shown.



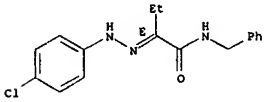
RN 565212-65-9 CAPLUS
CN Glycine, N-[(6-chloro-3-pyridinyl)methyl]-N-[(2E)-2-[(2-ethoxy-2-oxoethyl)[4-(trifluoromethyl)phenyl]hydrazono]-1-oxopropyl]-, ethyl ester (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 565212-66-0 CAPLUS
CN Butanamide, 2-[(4-chlorophenyl)hydrazono]-N-(phenylmethyl)-, (2E)- (9CI) (CA INDEX NAME)

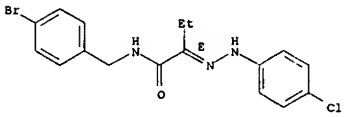
Double bond geometry as shown.



RN 565212-67-1 CAPLUS
CN Butanamide, N-[(4-bromophenyl)methyl]-2-[(4-chlorophenyl)hydrazono]-, (2E)- (9CI) (CA INDEX NAME)

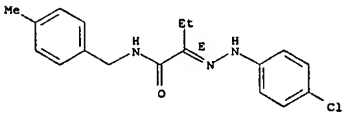
Double bond geometry as shown.

L7 ANSWER 5 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



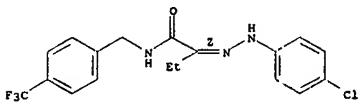
RN 565212-68-2 CAPLUS
CN Butanamide, 2-[(4-chlorophenyl)hydrazono]-N-[(4-methylphenyl)methyl]-, (2E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



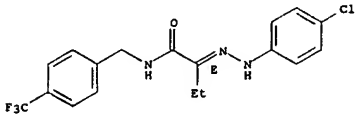
RN 565212-69-3 CAPLUS
CN Butanamide, 2-[(4-chlorophenyl)hydrazono]-N-[[4-(trifluoromethyl)phenyl]methyl]-, (2Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 565212-70-6 CAPLUS
CN Butanamide, 2-[(4-chlorophenyl)hydrazono]-N-[[4-(trifluoromethyl)phenyl]methyl]-, (2E)- (9CI) (CA INDEX NAME)

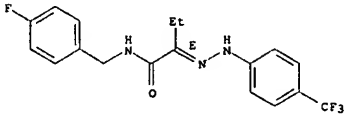
Double bond geometry as shown.



RN 565212-71-7 CAPLUS

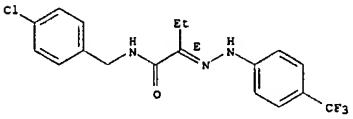
L7 ANSWER 5 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
CN Butanamide,
N-[(4-fluorophenyl)methyl]-2-[[4-(trifluoromethyl)phenyl]hydra
zono]-, (2E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



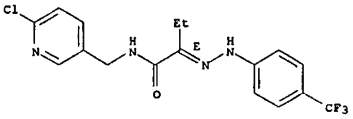
RN 565212-72-8 CAPLUS
CN Butanamide,
N-[(4-chlorophenyl)methyl]-2-[[4-(trifluoromethyl)phenyl]hydra
zono]-, (2E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 565212-73-9 CAPLUS
CN Butanamide, N-[(6-chloro-3-pyridinyl)methyl]-2-[[4-
(trifluoromethyl)phenyl]hydrazono]-, (2E)- (9CI) (CA INDEX NAME)

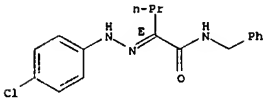
Double bond geometry as shown.



RN 565212-74-0 CAPLUS
CN Butanamide, 2-[[4-(trifluoromethyl)phenyl]hydrazono]-N-[[4-
(trifluoromethyl)phenyl]methyl]-, (2E)- (9CI) (CA INDEX NAME)

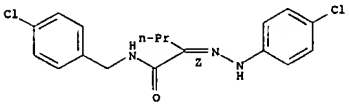
Double bond geometry as shown.

L7 ANSWER 5 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



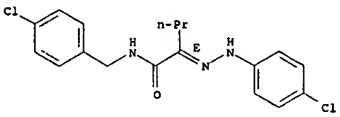
RN 565212-78-4 CAPLUS
CN Pentanamide, 2-[(4-chlorophenyl)hydrazono]-N-[(4-chlorophenyl)methyl]-,
(2Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



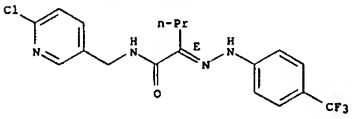
RN 565212-79-5 CAPLUS
CN Pentanamide, 2-[(4-chlorophenyl)hydrazono]-N-[(4-chlorophenyl)methyl]-,
(2E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



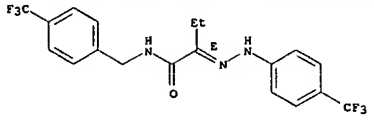
RN 565212-80-8 CAPLUS
CN Pentanamide, N-[(6-chloro-3-pyridinyl)methyl]-2-[[4-
(trifluoromethyl)phenyl]hydrazono]-, (2E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



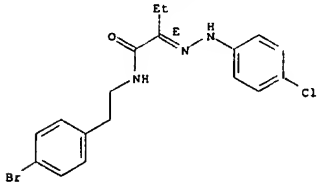
RN 565212-81-9 CAPLUS
CN Pentanamide, 2-[(4-chlorophenyl)hydrazono]-N-[(4-methylphenyl)methyl]-,

L7 ANSWER 5 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



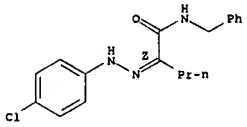
RN 565212-75-1 CAPLUS
CN Butanamide, N-[2-(4-bromophenyl)ethyl]-2-[(4-chlorophenyl)hydrazono]-,
(2E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 565212-76-2 CAPLUS
CN Pentanamide, 2-[(4-chlorophenyl)hydrazono]-N-(phenylmethyl)-, (2Z)- (9CI)
(CA INDEX NAME)

Double bond geometry as shown.

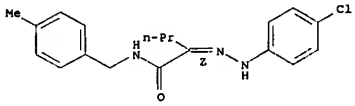


RN 565212-77-3 CAPLUS
CN Pentanamide, 2-[(4-chlorophenyl)hydrazono]-N-(phenylmethyl)-, (2E)- (9CI)
(CA INDEX NAME)

Double bond geometry as shown.

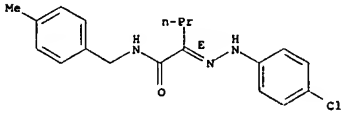
L7 ANSWER 5 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
(2Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



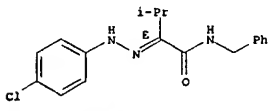
RN 565212-82-0 CAPLUS
CN Pentanamide, 2-[(4-chlorophenyl)hydrazono]-N-[(4-methylphenyl)methyl]-,
(2E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



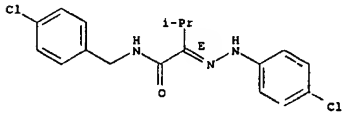
RN 565212-83-1 CAPLUS
CN Butanamide, 2-[(4-chlorophenyl)hydrazono]-3-methyl-N-(phenylmethyl)-,
(2E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 565212-84-2 CAPLUS
CN Butanamide, 2-[(4-chlorophenyl)hydrazono]-N-[(4-chlorophenyl)methyl]-3-
methyl-, (2E)- (9CI) (CA INDEX NAME)

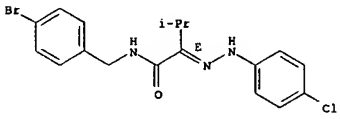
Double bond geometry as shown.



L7 ANSWER 5 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

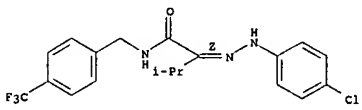
RN 565212-85-3 CAPLUS
CN Butanamide, N-[(4-bromophenyl)methyl]-2-[(4-chlorophenyl)hydrazono]-3-methyl-, (2E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



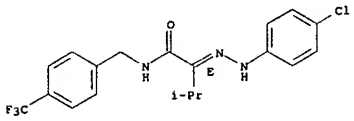
RN 565212-86-4 CAPLUS
CN Butanamide, 2-[(4-chlorophenyl)hydrazono]-3-methyl-N-[[4-(trifluoromethyl)phenyl]methyl]-, (2Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 565212-87-5 CAPLUS
CN Butanamide, 2-[(4-chlorophenyl)hydrazono]-3-methyl-N-[[4-(trifluoromethyl)phenyl]methyl]-, (2E)- (9CI) (CA INDEX NAME)

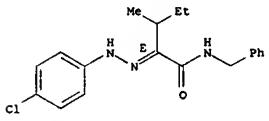
Double bond geometry as shown.



RN 565212-88-6 CAPLUS
CN Butanamide, N-[(4-chlorophenyl)methyl]-3-methyl-2-[[4-(trifluoromethyl)phenyl]hydrazono]-, (2Z)- (9CI) (CA INDEX NAME)

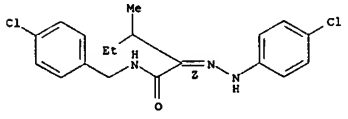
Double bond geometry as shown.

L7 ANSWER 5 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



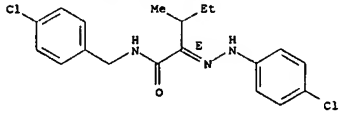
RN 565212-92-2 CAPLUS
CN Pentanamide, 2-[(4-chlorophenyl)hydrazono]-N-[(4-chlorophenyl)methyl]-3-methyl-, (2Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



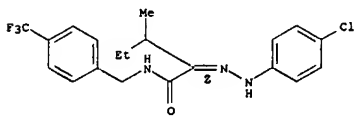
RN 565212-93-3 CAPLUS
CN Pentanamide, 2-[(4-chlorophenyl)hydrazono]-N-[(4-chlorophenyl)methyl]-3-methyl-, (2E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

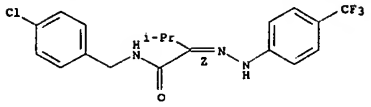


RN 565212-94-4 CAPLUS
CN Pentanamide, 2-[(4-chlorophenyl)hydrazono]-3-methyl-N-[[4-(trifluoromethyl)phenyl]methyl]-, (2Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

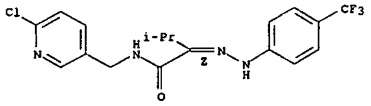


L7 ANSWER 5 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



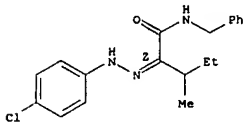
RN 565212-89-7 CAPLUS
CN Butanamide, N-[(6-chloro-3-pyridinyl)methyl]-3-methyl-2-[[4-(trifluoromethyl)phenyl]hydrazono]-, (2Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 565212-90-0 CAPLUS
CN Pentanamide, 2-[(4-chlorophenyl)hydrazono]-3-methyl-N-(phenylmethyl)-, (2Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



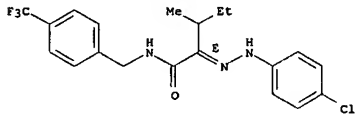
RN 565212-91-1 CAPLUS
CN Pentanamide, 2-[(4-chlorophenyl)hydrazono]-3-methyl-N-(phenylmethyl)-, (2E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

L7 ANSWER 5 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

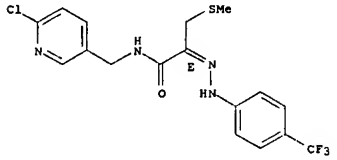
RN 565212-95-5 CAPLUS
CN Pentanamide, 2-[(4-chlorophenyl)hydrazono]-3-methyl-N-[[4-(trifluoromethyl)phenyl]methyl]-, (2E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



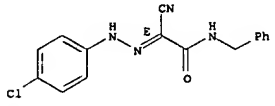
RN 565212-98-8 CAPLUS
CN Propanamide, N-[(6-chloro-3-pyridinyl)methyl]-3-(methylthio)-2-[[4-(trifluoromethyl)phenyl]hydrazono]-, (2E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 565212-99-9 CAPLUS
CN Acetamide, 2-[(4-chlorophenyl)hydrazono]-2-cyano-N-(phenylmethyl)-, (2E)- (9CI) (CA INDEX NAME)

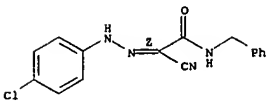
Double bond geometry as shown.



RN 565213-00-5 CAPLUS
CN Acetamide, 2-[(4-chlorophenyl)hydrazono]-2-cyano-N-(phenylmethyl)-, (2Z)- (9CI) (CA INDEX NAME)

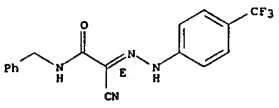
Double bond geometry as shown.

L7 ANSWER 5 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



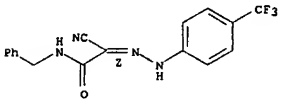
RN 565213-01-6 CAPLUS
CN Acetamide,
2-cyano-N-(phenylmethyl)-2-[[4-(trifluoromethyl)phenyl]hydrazono]-, (2E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 565213-02-7 CAPLUS
CN Acetamide,
2-cyano-N-(phenylmethyl)-2-[[4-(trifluoromethyl)phenyl]hydrazono]-, (2Z)- (9CI) (CA INDEX NAME)

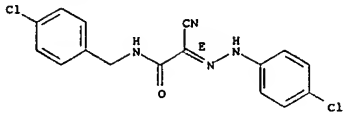
Double bond geometry as shown.



RN 565213-03-8 CAPLUS
CN Acetamide, 2-[(4-chlorophenyl)hydrazono]-N-[(4-chlorophenyl)methyl]-2-cyano-, (2E)- (9CI) (CA INDEX NAME)

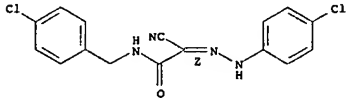
Double bond geometry as shown.

L7 ANSWER 5 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

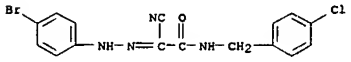


RN 565213-04-9 CAPLUS
CN Acetamide, 2-[(4-chlorophenyl)hydrazono]-N-[(4-chlorophenyl)methyl]-2-cyano-, (2Z)- (9CI) (CA INDEX NAME)

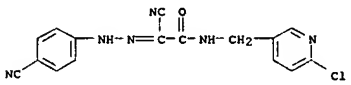
Double bond geometry as shown.



RN 565213-05-0 CAPLUS
CN Acetamide,
2-[(4-bromophenyl)hydrazono]-N-[(4-chlorophenyl)methyl]-2-cyano-
(9CI) (CA INDEX NAME)

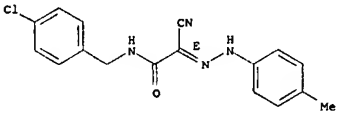


RN 565213-06-1 CAPLUS
CN Acetamide, N-[(6-chloro-3-pyridinyl)methyl]-2-cyano-2-[(4-cyanophenyl)hydrazono]- (9CI) (CA INDEX NAME)



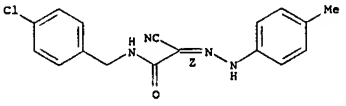
RN 565213-07-2 CAPLUS
CN Acetamide, N-[(4-chlorophenyl)methyl]-2-cyano-2-[(4-methylphenyl)hydrazono]-, (2E)- (9CI) (CA INDEX NAME)

L7 ANSWER 5 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
Double bond geometry as shown.



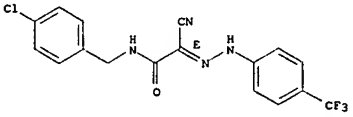
RN 565213-08-3 CAPLUS
CN Acetamide, N-[(4-chlorophenyl)methyl]-2-cyano-2-[(4-methylphenyl)hydrazono]-, (2Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



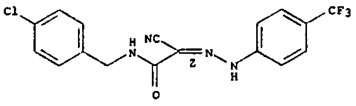
RN 565213-09-4 CAPLUS
CN Acetamide, N-[(4-chlorophenyl)methyl]-2-cyano-2-[[4-(trifluoromethyl)phenyl]hydrazono]-, (2E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



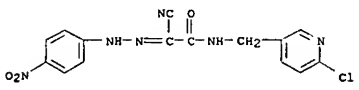
RN 565213-10-7 CAPLUS
CN Acetamide, N-[(4-chlorophenyl)methyl]-2-cyano-2-[[4-(trifluoromethyl)phenyl]hydrazono]-, (2Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



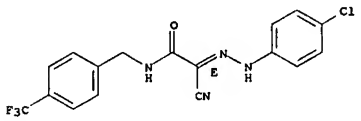
RN 565213-13-0 CAPLUS

L7 ANSWER 5 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
CN Acetamide, N-[(6-chloro-3-pyridinyl)methyl]-2-cyano-2-[(4-nitrophenyl)hydrazono]- (9CI) (CA INDEX NAME)



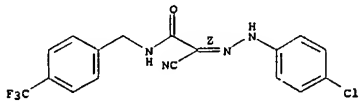
RN 565213-14-1 CAPLUS
CN Acetamide, 2-[(4-chlorophenyl)hydrazono]-2-cyano-N-[[4-(trifluoromethyl)phenyl]methyl]-, (2E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



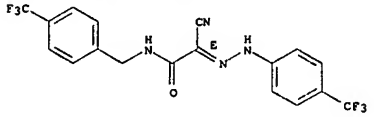
RN 565213-15-2 CAPLUS
CN Acetamide, 2-[(4-chlorophenyl)hydrazono]-2-cyano-N-[[4-(trifluoromethyl)phenyl]methyl]-, (2Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



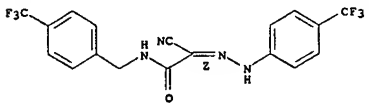
RN 565213-16-3 CAPLUS
CN Acetamide, 2-cyano-2-[[4-(trifluoromethyl)phenyl]hydrazono]-N-[[4-(trifluoromethyl)phenyl]methyl]-, (2E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



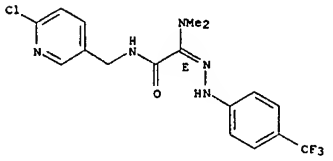
L7 ANSWER 5 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
RN 565213-17-4 CAPLUS
CN Acetamide, 2-cyano-2-[[4-(trifluoromethyl)phenyl]hydrazono]-N-[(4-(trifluoromethyl)phenyl]methyl]-, (2Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

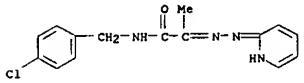


RN 565213-18-5 CAPLUS
CN Acetamide, N-[(6-chloro-3-pyridinyl)methyl]-2-(dimethylamino)-2-[[4-(trifluoromethyl)phenyl]hydrazono]-, (2E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

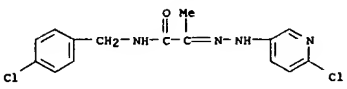


RN 565213-19-6 CAPLUS
CN Propanamide, N-[(4-chlorophenyl)methyl]-2-(2-pyridinylhydrazono)- (9CI) (CA INDEX NAME)

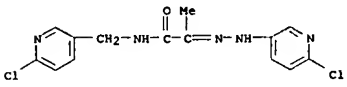


RN 565213-20-9 CAPLUS
CN Propanamide, N-[(4-chlorophenyl)methyl]-2-[(6-chloro-3-pyridinyl)hydrazono]- (9CI) (CA INDEX NAME)

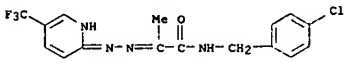
L7 ANSWER 5 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



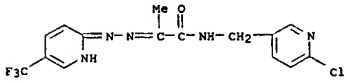
RN 565213-21-0 CAPLUS
CN Propanamide, 2-[(6-chloro-3-pyridinyl)hydrazono]-N-[(6-chloro-3-pyridinyl)methyl]- (9CI) (CA INDEX NAME)



RN 565213-22-1 CAPLUS
CN Propanamide, N-[(4-chlorophenyl)methyl]-2-[[5-(trifluoromethyl)-2-pyridinyl]hydrazono]- (9CI) (CA INDEX NAME)

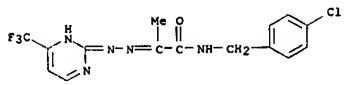


RN 565213-23-2 CAPLUS
CN Propanamide, N-[(6-chloro-3-pyridinyl)methyl]-2-[[5-(trifluoromethyl)-2-pyridinyl]hydrazono]- (9CI) (CA INDEX NAME)

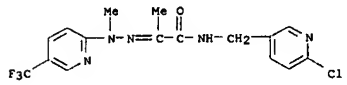


RN 565213-24-3 CAPLUS
CN Propanamide, N-[(4-chlorophenyl)methyl]-2-[[4-(trifluoromethyl)-2-pyrimidinyl]hydrazono]- (9CI) (CA INDEX NAME)

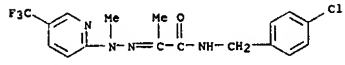
L7 ANSWER 5 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



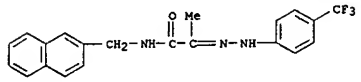
RN 565213-25-4 CAPLUS
CN Propanamide, N-[(6-chloro-3-pyridinyl)methyl]-2-[methyl[5-(trifluoromethyl)-2-pyridinyl]hydrazono]- (9CI) (CA INDEX NAME)



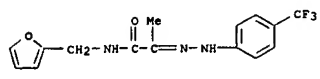
RN 565213-26-5 CAPLUS
CN Propanamide, N-[(4-chlorophenyl)methyl]-2-[methyl[5-(trifluoromethyl)-2-pyridinyl]hydrazono]- (9CI) (CA INDEX NAME)



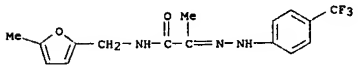
RN 565213-27-6 CAPLUS
CN Propanamide, N-(2-naphthalenylmethyl)-2-[[4-(trifluoromethyl)phenyl]hydrazono]- (9CI) (CA INDEX NAME)



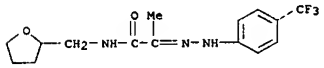
RN 565213-28-7 CAPLUS
CN Propanamide, N-(2-furanylmethyl)-2-[[4-(trifluoromethyl)phenyl]hydrazono]- (9CI) (CA INDEX NAME)



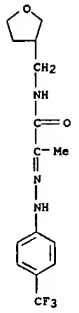
L7 ANSWER 5 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
RN 565213-29-8 CAPLUS
CN Propanamide, N-[(5-methyl-2-furanyl)methyl]-2-[[4-(trifluoromethyl)phenyl]hydrazono]- (9CI) (CA INDEX NAME)



RN 565213-30-1 CAPLUS
CN Propanamide, N-[(tetrahydro-2-furanyl)methyl]-2-[[4-(trifluoromethyl)phenyl]hydrazono]- (9CI) (CA INDEX NAME)

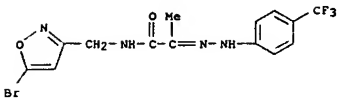


RN 565213-31-2 CAPLUS
CN Propanamide, N-[(tetrahydro-3-furanyl)methyl]-2-[[4-(trifluoromethyl)phenyl]hydrazono]- (9CI) (CA INDEX NAME)

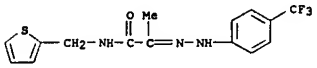


RN 565213-32-3 CAPLUS
CN Propanamide, N-[(5-bromo-3-isoxazolyl)methyl]-2-[[4-(trifluoromethyl)phenyl]hydrazono]- (9CI) (CA INDEX NAME)

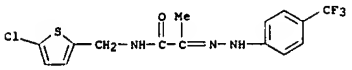
L7 ANSWER 5 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



RN 565213-33-4 CAPLUS
CN Propanamide, N-(2-thienylmethyl)-2-[[4-(trifluoromethyl)phenyl]hydrazono]- (9CI) (CA INDEX NAME)

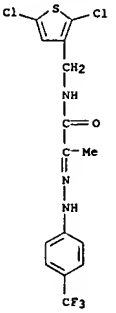


RN 565213-34-5 CAPLUS
CN Propanamide, N-[(5-chloro-2-thienyl)methyl]-2-[[4-(trifluoromethyl)phenyl]hydrazono]- (9CI) (CA INDEX NAME)

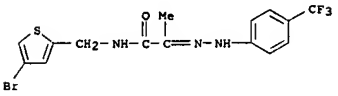


RN 565213-35-6 CAPLUS
CN Propanamide, N-[(2,5-dichloro-3-thienyl)methyl]-2-[[4-(trifluoromethyl)phenyl]hydrazono]- (9CI) (CA INDEX NAME)

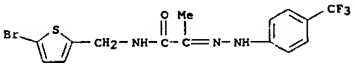
L7 ANSWER 5 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



RN 565213-36-7 CAPLUS
CN Propanamide, N-[(4-bromo-2-thienyl)methyl]-2-[[4-(trifluoromethyl)phenyl]hydrazono]- (9CI) (CA INDEX NAME)

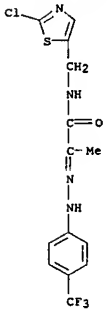


RN 565213-37-8 CAPLUS
CN Propanamide, N-[(5-bromo-2-thienyl)methyl]-2-[[4-(trifluoromethyl)phenyl]hydrazono]- (9CI) (CA INDEX NAME)

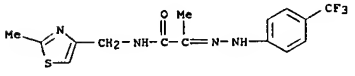


RN 565213-38-9 CAPLUS
CN Propanamide, N-[(2-chloro-5-thiazolyl)methyl]-2-[[4-(trifluoromethyl)phenyl]hydrazono]- (9CI) (CA INDEX NAME)

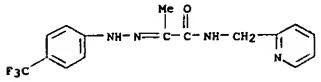
L7 ANSWER 5 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



RN 565213-39-0 CAPLUS
CN Propanamide, N-[(2-methyl-4-thiazolyl)methyl]-2-[[4-(trifluoromethyl)phenyl]hydrazono]- (9CI) (CA INDEX NAME)

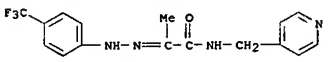


RN 565213-40-3 CAPLUS
CN Propanamide, N-(2-pyridinylmethyl)-2-[[4-(trifluoromethyl)phenyl]hydrazono]- (9CI) (CA INDEX NAME)

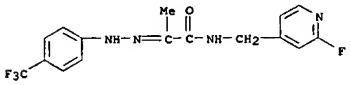


RN 565213-41-4 CAPLUS
CN Propanamide, N-(4-pyridinylmethyl)-2-[[4-(trifluoromethyl)phenyl]hydrazono]- (9CI) (CA INDEX NAME)

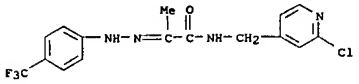
L7 ANSWER 5 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



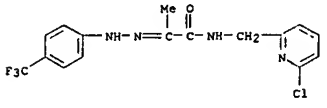
RN 565213-42-5 CAPLUS
CN Propanamide, N-[(2-fluoro-4-pyridinyl)methyl]-2-[[4-(trifluoromethyl)phenyl]hydrazono]- (9CI) (CA INDEX NAME)



RN 565213-43-6 CAPLUS
CN Propanamide, N-[(2-chloro-4-pyridinyl)methyl]-2-[[4-(trifluoromethyl)phenyl]hydrazono]- (9CI) (CA INDEX NAME)

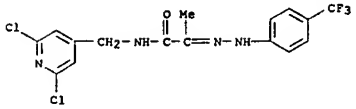


RN 565213-44-7 CAPLUS
CN Propanamide, N-[(6-chloro-2-pyridinyl)methyl]-2-[[4-(trifluoromethyl)phenyl]hydrazono]- (9CI) (CA INDEX NAME)

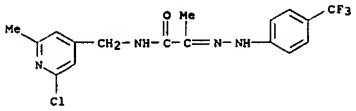


RN 565213-45-8 CAPLUS
CN Propanamide, N-[(2,6-dichloro-4-pyridinyl)methyl]-2-[[4-(trifluoromethyl)phenyl]hydrazono]- (9CI) (CA INDEX NAME)

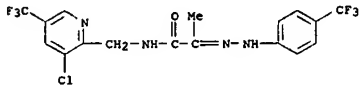
L7 ANSWER 5 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



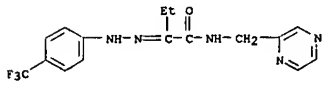
RN 565213-46-9 CAPLUS
CN Propanamide, N-[(2-chloro-6-methyl-4-pyridinyl)methyl]-2-[[4-(trifluoromethyl)phenyl]hydrazono]- (9CI) (CA INDEX NAME)



RN 565213-48-1 CAPLUS
CN Propanamide, N-[[3-chloro-5-(trifluoromethyl)-2-pyridinyl]methyl]-2-[[4-(trifluoromethyl)phenyl]hydrazono]- (9CI) (CA INDEX NAME)



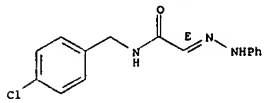
RN 565213-49-2 CAPLUS
CN Butanamide, N-(pyrazinylmethyl)-2-[[4-(trifluoromethyl)phenyl]hydrazono]- (9CI) (CA INDEX NAME)



RN 565213-50-5 CAPLUS
CN Propanamide, N-[(5-methylpyrazinyl)methyl]-2-[[4-(trifluoromethyl)phenyl]hydrazono]- (9CI) (CA INDEX NAME)

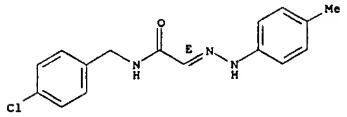
L7 ANSWER 5 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

Double bond geometry as shown.



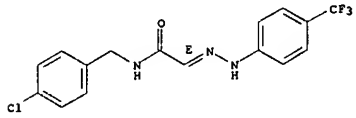
RN 565213-55-0 CAPLUS
CN Acetamide, N-[(4-chlorophenyl)methyl]-2-[(4-methylphenyl)hydrazono]-, (2E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 565213-56-1 CAPLUS
CN Acetamide, N-[(4-chlorophenyl)methyl]-2-[[4-(trifluoromethyl)phenyl]hydrazono]-, (2E)- (9CI) (CA INDEX NAME)

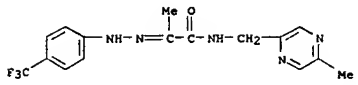
Double bond geometry as shown.



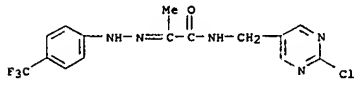
RN 565213-57-2 CAPLUS
CN Acetamide, N-[(4-methylphenyl)methyl]-2-[[4-(trifluoromethyl)phenyl]hydrazono]-, (2E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

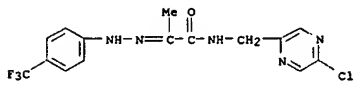
L7 ANSWER 5 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



RN 565213-51-6 CAPLUS
CN Propanamide, N-[(2-chloro-5-pyrimidinyl)methyl]-2-[[4-(trifluoromethyl)phenyl]hydrazono]- (9CI) (CA INDEX NAME)

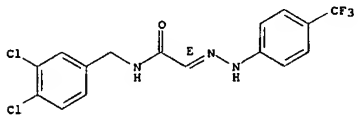


RN 565213-52-7 CAPLUS
CN Propanamide, N-[(5-chloropyrazinyl)methyl]-2-[[4-(trifluoromethyl)phenyl]hydrazono]- (9CI) (CA INDEX NAME)



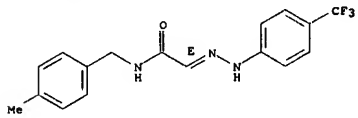
RN 565213-53-8 CAPLUS
CN Acetamide, N-[(3,4-dichlorophenyl)methyl]-2-[[4-(trifluoromethyl)phenyl]hydrazono]-, (2E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



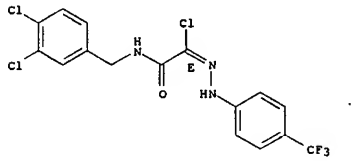
RN 565213-54-9 CAPLUS
CN Acetamide, N-[(4-chlorophenyl)methyl]-2-(phenylhydrazono)-, (2E)- (9CI) (CA INDEX NAME)

L7 ANSWER 5 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



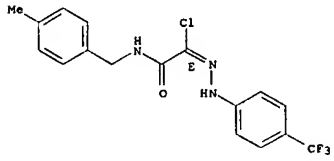
RN 565213-58-3 CAPLUS
CN Ethanehydrazonoyl chloride, 2-[[(3,4-dichlorophenyl)methyl]amino]-2-oxo-N-[4-(trifluoromethyl)phenyl]-, (1E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 565213-59-4 CAPLUS
CN Ethanehydrazonoyl chloride, 2-[[(4-methylphenyl)methyl]amino]-2-oxo-N-[4-(trifluoromethyl)phenyl]-, (1E)- (9CI) (CA INDEX NAME)

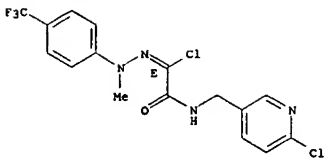
Double bond geometry as shown.



RN 565213-60-7 CAPLUS
CN Ethanehydrazonoyl chloride, 2-[[(6-chloro-3-pyridinyl)methyl]amino]-N-methyl-2-oxo-N-[4-(trifluoromethyl)phenyl]-, (1E)- (9CI) (CA INDEX NAME)

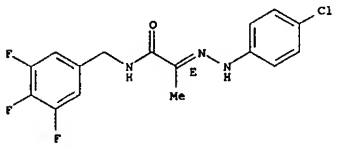
Double bond geometry as shown.

L7 ANSWER 5 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



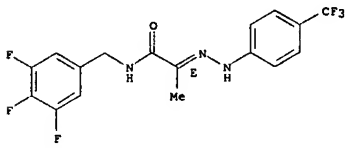
RN 565213-61-8 CAPLUS
CN Propanamide, 2-[(4-chlorophenyl)hydrazono]-N-[(3,4,5-trifluorophenyl)methyl]-, (2E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 565213-62-9 CAPLUS
CN Propanamide, 2-[[4-(trifluoromethyl)phenyl]hydrazono]-N-[(3,4,5-trifluorophenyl)methyl]-, (2E)- (9CI) (CA INDEX NAME)

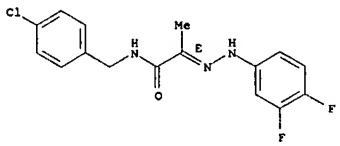
Double bond geometry as shown.



RN 565213-63-0 CAPLUS
CN Propanamide, N-[(4-chloro-3-fluorophenyl)methyl]-2-[[4-(trifluoromethyl)phenyl]hydrazono]-, (2E)- (9CI) (CA INDEX NAME)

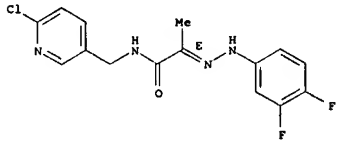
Double bond geometry as shown.

L7 ANSWER 5 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



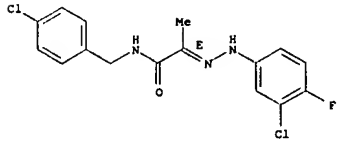
RN 565213-67-4 CAPLUS
CN Propanamide, N-[(6-chloro-3-pyridinyl)methyl]-2-[(3,4-difluorophenyl)hydrazono]-, (2E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 565213-68-5 CAPLUS
CN Propanamide, 2-[(3-chloro-4-fluorophenyl)hydrazono]-N-[(4-chlorophenyl)methyl]-, (2E)- (9CI) (CA INDEX NAME)

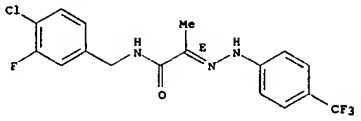
Double bond geometry as shown.



RN 565213-69-6 CAPLUS
CN Propanamide, 2-[(3-chloro-4-fluorophenyl)hydrazono]-N-[(6-chloro-3-pyridinyl)methyl]-, (2E)- (9CI) (CA INDEX NAME)

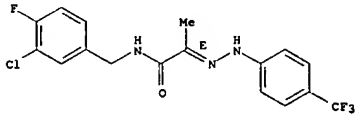
Double bond geometry as shown.

L7 ANSWER 5 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



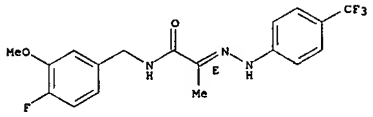
RN 565213-64-1 CAPLUS
CN Propanamide, N-[(3-chloro-4-fluorophenyl)methyl]-2-[[4-(trifluoromethyl)phenyl]hydrazono]-, (2E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 565213-65-2 CAPLUS
CN Propanamide, N-[(4-fluoro-3-methoxyphenyl)methyl]-2-[[4-(trifluoromethyl)phenyl]hydrazono]-, (2E)- (9CI) (CA INDEX NAME)

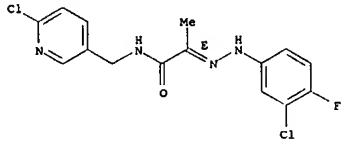
Double bond geometry as shown.



RN 565213-66-3 CAPLUS
CN Propanamide, N-[(4-chlorophenyl)methyl]-2-[(3,4-difluorophenyl)hydrazono]-, (2E)- (9CI) (CA INDEX NAME)

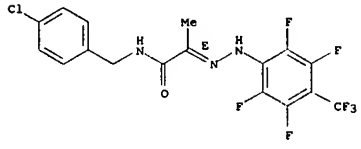
Double bond geometry as shown.

L7 ANSWER 5 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



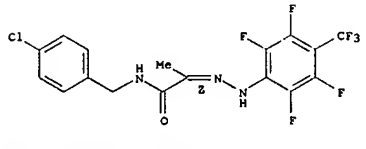
RN 565213-70-9 CAPLUS
CN Propanamide, N-[(4-chlorophenyl)methyl]-2-[[2,3,5,6-tetrafluoro-4-(trifluoromethyl)phenyl]hydrazono]-, (2E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 565213-71-0 CAPLUS
CN Propanamide, N-[(4-chlorophenyl)methyl]-2-[[2,3,5,6-tetrafluoro-4-(trifluoromethyl)phenyl]hydrazono]-, (2Z)- (9CI) (CA INDEX NAME)

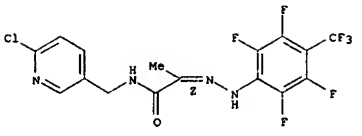
Double bond geometry as shown.



RN 565213-72-1 CAPLUS
CN Propanamide, N-[(6-chloro-3-pyridinyl)methyl]-2-[[2,3,5,6-tetrafluoro-4-(trifluoromethyl)phenyl]hydrazono]-, (2Z)- (9CI) (CA INDEX NAME)

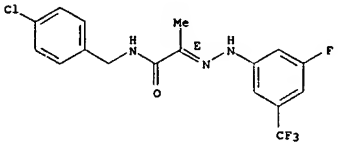
Double bond geometry as shown.

L7 ANSWER 5 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



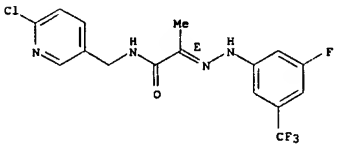
RN 565213-73-2 CAPLUS
CN Propanamide, N-[(4-chlorophenyl)methyl]-2-[[3-fluoro-5-(trifluoromethyl)phenyl]hydrazono]-, (2E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 565213-74-3 CAPLUS
CN Propanamide, N-[(6-chloro-3-pyridinyl)methyl]-2-[[3-fluoro-5-(trifluoromethyl)phenyl]hydrazono]-, (2E)- (9CI) (CA INDEX NAME)

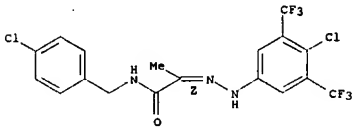
Double bond geometry as shown.



RN 565213-75-4 CAPLUS
CN Propanamide, N-[(6-chloro-3-pyridinyl)methyl]-2-[[3,5-difluoro-4-(trifluoromethyl)phenyl]hydrazono]-, (2E)- (9CI) (CA INDEX NAME)

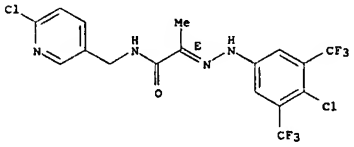
Double bond geometry as shown.

L7 ANSWER 5 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
Double bond geometry as shown.



RN 565213-79-8 CAPLUS
CN Propanamide, 2-[[4-chloro-3,5-bis(trifluoromethyl)phenyl]hydrazono]-N-[(6-chloro-3-pyridinyl)methyl]-, (2E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



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565213-95-8 565213-96-9 565213-97-0
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565214-25-7 565214-26-8 565214-27-9
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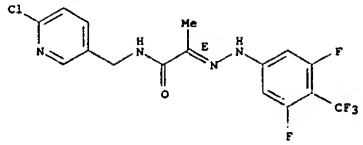
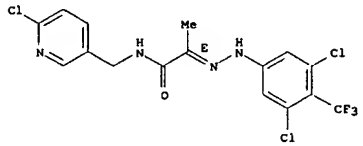
565214-33-7 565214-34-8 565214-35-9
565214-36-0 565214-37-1 565214-38-2
565214-39-3 565214-40-6 565214-41-7
565214-42-8 565214-43-9 565214-44-0
565214-45-1 565214-46-2 565214-47-3
565214-48-4 565214-49-5 565214-50-8
565214-51-9 565214-52-0 565214-53-1
565214-54-2 565214-55-3 565214-56-4
565214-57-5 565214-58-6 565214-59-7
565214-60-0 565214-61-1 565214-62-2
565214-63-3 565214-64-4 565214-65-5

L7 ANSWER 5 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



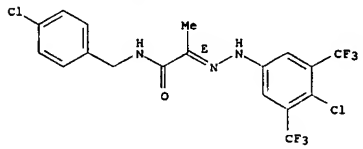
RN 565213-76-5 CAPLUS
CN Propanamide, N-[(6-chloro-3-pyridinyl)methyl]-2-[[3,5-dichloro-4-(trifluoromethyl)phenyl]hydrazono]-, (2E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 565213-77-6 CAPLUS
CN Propanamide, 2-[[4-chloro-3,5-bis(trifluoromethyl)phenyl]hydrazono]-N-[(4-chlorophenyl)methyl]-, (2E)- (9CI) (CA INDEX NAME)

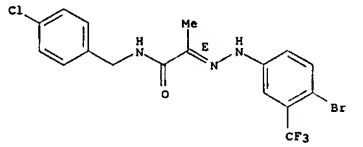
Double bond geometry as shown.



RN 565213-78-7 CAPLUS
CN Propanamide, 2-[[4-chloro-3,5-bis(trifluoromethyl)phenyl]hydrazono]-N-[(4-chlorophenyl)methyl]-, (2Z)- (9CI) (CA INDEX NAME)

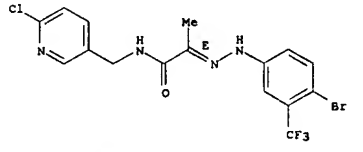
L7 ANSWER 5 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
565214-74-6 565214-75-7 565214-76-8
565214-77-9 565214-78-0 565457-10-5
565457-11-6 565457-12-7 565457-13-8
565457-14-9 565457-15-0 565457-16-1
RL: AGR (Agricultural use); BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study); USES (Uses)
(insecticides contg. novel hydrazone derivs.)
RN 565213-80-1 CAPLUS
CN Propanamide, 2-[[4-bromo-3-(trifluoromethyl)phenyl]hydrazono]-N-[(4-chlorophenyl)methyl]-, (2E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 565213-81-2 CAPLUS
CN Propanamide, 2-[[4-bromo-3-(trifluoromethyl)phenyl]hydrazono]-N-[(6-chloro-3-pyridinyl)methyl]-, (2E)- (9CI) (CA INDEX NAME)

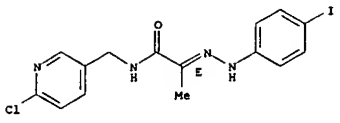
Double bond geometry as shown.



RN 565213-82-3 CAPLUS
CN Propanamide, N-[(6-chloro-3-pyridinyl)methyl]-2-[(4-iodophenyl)hydrazono]-, (2E)- (9CI) (CA INDEX NAME)

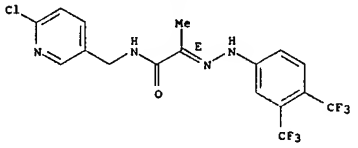
Double bond geometry as shown.

L7 ANSWER 5 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



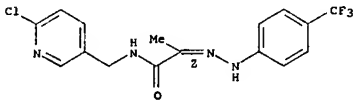
RN 565213-83-4 CAPLUS
CN Propanamide, 2-[[3,4-bis(trifluoromethyl)phenyl]hydrazono]-N-[(6-chloro-3-pyridinyl)methyl]-, (2E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 565213-84-5 CAPLUS
CN Propanamide, N-[(6-chloro-3-pyridinyl)methyl]-2-[[4-(trifluoromethyl)phenyl]hydrazono]-, (2Z)- (9CI) (CA INDEX NAME)

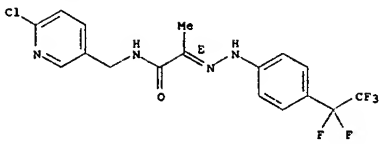
Double bond geometry as shown.



RN 565213-85-6 CAPLUS
CN Propanamide, N-[(6-chloro-3-pyridinyl)methyl]-2-[[4-(pentafluoroethyl)phenyl]hydrazono]-, (2E)- (9CI) (CA INDEX NAME)

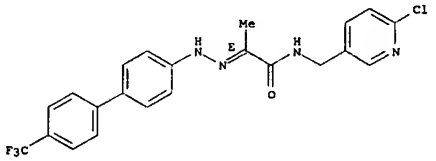
Double bond geometry as shown.

L7 ANSWER 5 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



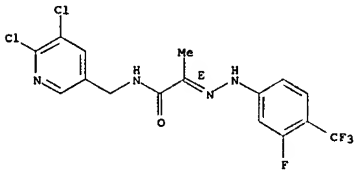
RN 565213-86-7 CAPLUS
CN Propanamide, N-[(6-chloro-3-pyridinyl)methyl]-2-[[4'-(trifluoromethyl)[1,1'-biphenyl]-4-yl]hydrazono]-, (2E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



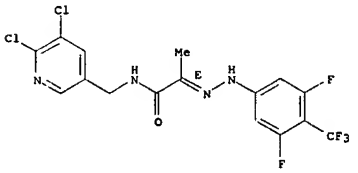
RN 565213-87-8 CAPLUS
CN Propanamide, N-[(5,6-dichloro-3-pyridinyl)methyl]-2-[[3-fluoro-4-(trifluoromethyl)phenyl]hydrazono]-, (2E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



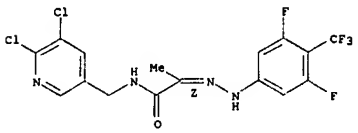
RN 565213-88-9 CAPLUS
CN Propanamide, N-[(5,6-dichloro-3-pyridinyl)methyl]-2-[[3,5-difluoro-4-(trifluoromethyl)phenyl]hydrazono]-, (2E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



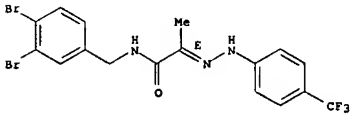
RN 565213-89-0 CAPLUS
CN Propanamide, N-[(5,6-dichloro-3-pyridinyl)methyl]-2-[[3,5-difluoro-4-(trifluoromethyl)phenyl]hydrazono]-, (2Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 565213-90-3 CAPLUS
CN Propanamide, N-[(3,4-dibromophenyl)methyl]-2-[[4-(trifluoromethyl)phenyl]hydrazono]-, (2E)- (9CI) (CA INDEX NAME)

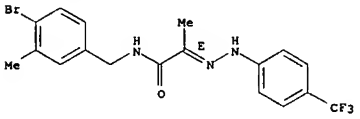
Double bond geometry as shown.



RN 565213-91-4 CAPLUS
CN Propanamide, N-[(4-bromo-3-methylphenyl)methyl]-2-[[4-(trifluoromethyl)phenyl]hydrazono]-, (2E)- (9CI) (CA INDEX NAME)

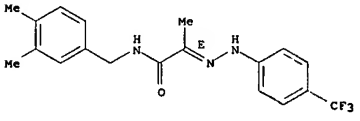
Double bond geometry as shown.

L7 ANSWER 5 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



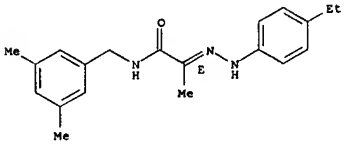
RN 565213-92-5 CAPLUS
CN Propanamide, N-[(3,4-dimethylphenyl)methyl]-2-[[4-(trifluoromethyl)phenyl]hydrazono]-, (2E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 565213-93-6 CAPLUS
CN Propanamide, N-[(3,5-dimethylphenyl)methyl]-2-[(4-ethylphenyl)hydrazono]-, (2E)- (9CI) (CA INDEX NAME)

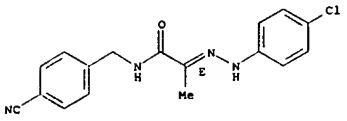
Double bond geometry as shown.



RN 565213-94-7 CAPLUS
CN Propanamide, 2-[(4-chlorophenyl)hydrazono]-N-[(4-cyanophenyl)methyl]-, (2E)- (9CI) (CA INDEX NAME)

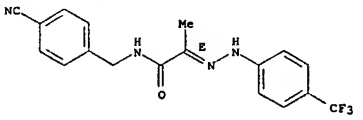
Double bond geometry as shown.

L7 ANSWER 5 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



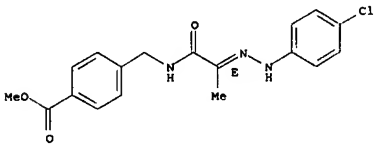
RN 565213-95-8 CAPLUS
CN Propanamide, N-[(4-cyanophenyl)methyl]-2-[[4-(trifluoromethyl)phenyl]hydrazono]-, (2E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 565213-96-9 CAPLUS
CN Benzoic acid, 4-[[[(2E)-2-[(4-chlorophenyl)hydrazono]-1-oxopropyl]amino]methyl]-, methyl ester (9CI) (CA INDEX NAME)

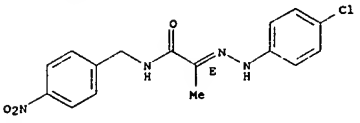
Double bond geometry as shown.



RN 565213-97-0 CAPLUS
CN Propanamide, 2-[(4-chlorophenyl)hydrazono]-N-[(4-nitrophenyl)methyl]-, (2E)- (9CI) (CA INDEX NAME)

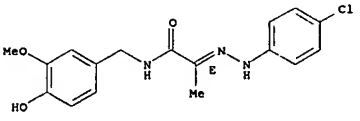
Double bond geometry as shown.

L7 ANSWER 5 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



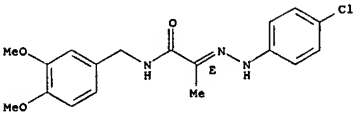
RN 565213-98-1 CAPLUS
CN Propanamide, 2-[(4-chlorophenyl)hydrazono]-N-[(4-hydroxy-3-methoxyphenyl)methyl]-, (2E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 565213-99-2 CAPLUS
CN Propanamide, 2-[(4-chlorophenyl)hydrazono]-N-[(3,4-dimethoxyphenyl)methyl]-, (2E)- (9CI) (CA INDEX NAME)

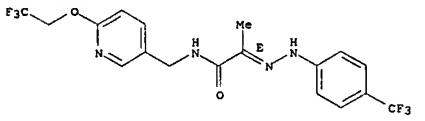
Double bond geometry as shown.



RN 565214-00-8 CAPLUS
CN Propanamide, N-[[6-(2,2,2-trifluoroethoxy)-3-pyridinyl]methyl]-2-[[4-(trifluoromethyl)phenyl]hydrazono]-, (2E)- (9CI) (CA INDEX NAME)

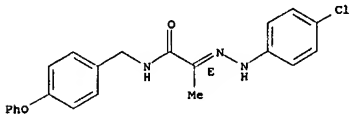
Double bond geometry as shown.

L7 ANSWER 5 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



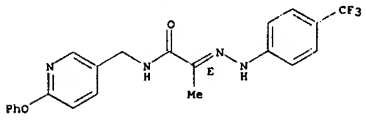
RN 565214-01-9 CAPLUS
CN Propanamide, 2-[(4-chlorophenyl)hydrazono]-N-[(4-phenoxyphenyl)methyl]-, (2E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



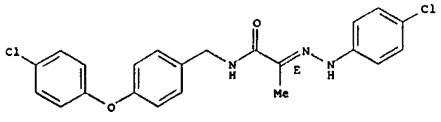
RN 565214-02-0 CAPLUS
CN Propanamide, N-[(6-phenoxy-3-pyridinyl)methyl]-2-[[4-(trifluoromethyl)phenyl]hydrazono]-, (2E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 565214-03-1 CAPLUS
CN Propanamide, N-[[4-(4-chlorophenoxy)phenyl]methyl]-2-[(4-chlorophenyl)hydrazono]-, (2E)- (9CI) (CA INDEX NAME)

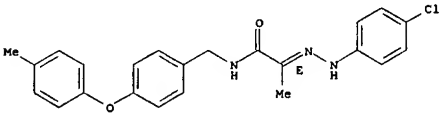
Double bond geometry as shown.



L7 ANSWER 5 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

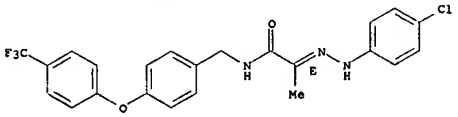
RN 565214-04-2 CAPLUS
CN Propanamide, 2-[(4-chlorophenyl)hydrazono]-N-[[4-(4-methylphenoxy)phenyl]methyl]-, (2E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



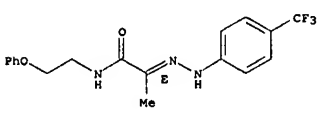
RN 565214-05-3 CAPLUS
CN Propanamide, 2-[(4-chlorophenyl)hydrazono]-N-[[4-[4-(trifluoromethyl)phenoxy]phenyl]methyl]-, (2E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 565214-06-4 CAPLUS
CN Propanamide, N-(2-phenoxyethyl)-2-[[4-(trifluoromethyl)phenyl]hydrazono]-, (2E)- (9CI) (CA INDEX NAME)

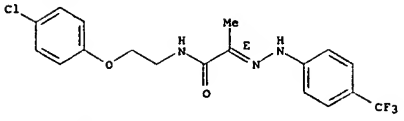
Double bond geometry as shown.



RN 565214-07-5 CAPLUS
CN Propanamide, N-[2-(4-chlorophenoxy)ethyl]-2-[[4-(trifluoromethyl)phenyl]hydrazono]-, (2E)- (9CI) (CA INDEX NAME)

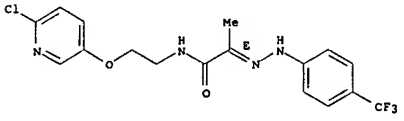
Double bond geometry as shown.

L7 ANSWER 5 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



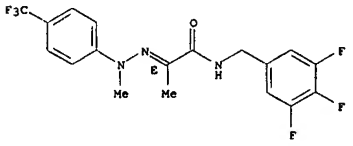
RN 565214-08-6 CAPLUS
CN Propanamide, N-[2-[(6-chloro-3-pyridinyl)oxy]ethyl]-2-[[4-(trifluoromethyl)phenyl]hydrazono]-, (2E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 565214-12-2 CAPLUS
CN Propanamide, 2-[methyl[4-(trifluoromethyl)phenyl]hydrazono]-N-[(3,4,5-trifluorophenyl)methyl]-, (2E)- (9CI) (CA INDEX NAME)

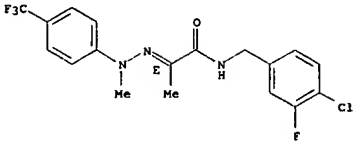
Double bond geometry as shown.



RN 565214-13-3 CAPLUS
CN Propanamide, N-[(4-chloro-3-fluorophenyl)methyl]-2-[methyl[4-(trifluoromethyl)phenyl]hydrazono]-, (2E)- (9CI) (CA INDEX NAME)

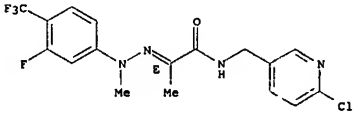
Double bond geometry as shown.

L7 ANSWER 5 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



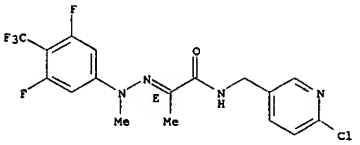
RN 565214-14-4 CAPLUS
CN Propanamide, N-[(6-chloro-3-pyridinyl)methyl]-2-[[3-fluoro-4-(trifluoromethyl)phenyl]methylhydrazono]-, (2E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 565214-15-5 CAPLUS
CN Propanamide, N-[(6-chloro-3-pyridinyl)methyl]-2-[[3,5-difluoro-4-(trifluoromethyl)phenyl]methylhydrazono]-, (2E)- (9CI) (CA INDEX NAME)

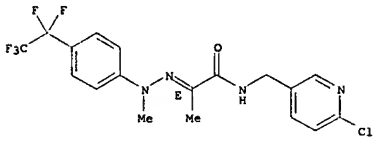
Double bond geometry as shown.



RN 565214-16-6 CAPLUS
CN Propanamide, N-[(6-chloro-3-pyridinyl)methyl]-2-[methyl[4-(pentafluoroethyl)phenyl]hydrazono]-, (2E)- (9CI) (CA INDEX NAME)

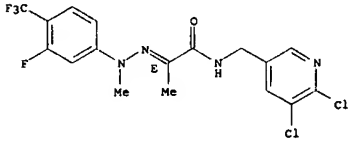
Double bond geometry as shown.

L7 ANSWER 5 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



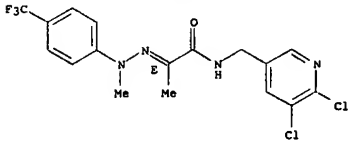
RN 565214-17-7 CAPLUS
CN Propanamide, N-[(5,6-dichloro-3-pyridinyl)methyl]-2-[[3-fluoro-4-(trifluoromethyl)phenyl]methylhydrazono]-, (2E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 565214-18-8 CAPLUS
CN Propanamide, N-[(5,6-dichloro-3-pyridinyl)methyl]-2-[methyl[4-(trifluoromethyl)phenyl]hydrazono]-, (2E)- (9CI) (CA INDEX NAME)

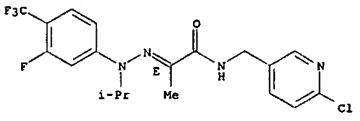
Double bond geometry as shown.



RN 565214-19-9 CAPLUS
CN Propanamide, N-[(6-chloro-3-pyridinyl)methyl]-2-[[3-fluoro-4-(trifluoromethyl)phenyl](1-methylethyl)hydrazono]-, (2E)- (9CI) (CA INDEX NAME)

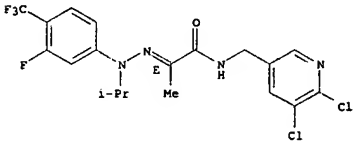
Double bond geometry as shown.

L7 ANSWER 5 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



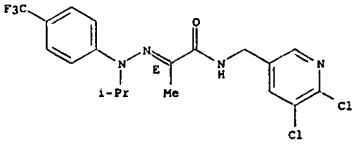
RN 565214-20-2 CAPLUS
CN Propanamide, N-[(5,6-dichloro-3-pyridinyl)methyl]-2-[[3-fluoro-4-(trifluoromethyl)phenyl](1-methylethyl)hydrazono]-, (2E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 565214-21-3 CAPLUS
CN Propanamide, N-[(5,6-dichloro-3-pyridinyl)methyl]-2-[(1-methylethyl)[4-(trifluoromethyl)phenyl]hydrazono]-, (2E)- (9CI) (CA INDEX NAME)

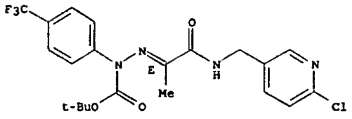
Double bond geometry as shown.



RN 565214-22-4 CAPLUS
CN Hydrazinecarboxylic acid, [2-[[(6-chloro-3-pyridinyl)methyl]amino]-1-methyl-2-oxoethylidene][4-(trifluoromethyl)phenyl]-, 1,1-dimethylethyl ester, (2E)- (9CI) (CA INDEX NAME)

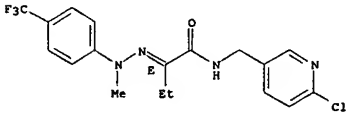
Double bond geometry as shown.

L7 ANSWER 5 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



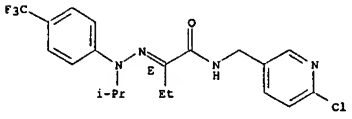
RN 565214-23-5 CAPLUS
CN Butanamide, N-[(6-chloro-3-pyridinyl)methyl]-2-[methyl[4-(trifluoromethyl)phenyl]hydrazono]-, (2E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

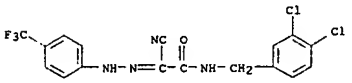


RN 565214-24-6 CAPLUS
CN Butanamide, N-[(6-chloro-3-pyridinyl)methyl]-2-[(1-methylethyl)[4-(trifluoromethyl)phenyl]hydrazono]-, (2E)- (9CI) (CA INDEX NAME)

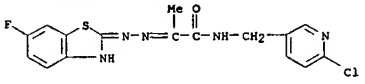
Double bond geometry as shown.



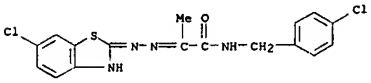
RN 565214-25-7 CAPLUS
CN Acetamide, 2-cyano-N-[(3,4-dichlorophenyl)methyl]-2-[[4-(trifluoromethyl)phenyl]hydrazono]- (9CI) (CA INDEX NAME)



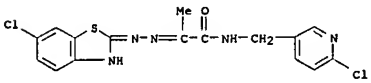
L7 ANSWER 5 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



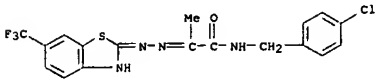
RN 565214-33-7 CAPLUS
CN Propanamide, 2-[(6-chloro-2-benzothiazolyl)hydrazono]-N-[(4-chlorophenyl)methyl]- (9CI) (CA INDEX NAME)



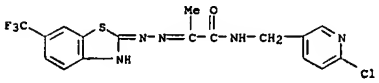
RN 565214-34-8 CAPLUS
CN Propanamide, 2-[(6-chloro-2-benzothiazolyl)hydrazono]-N-[(6-chloro-3-pyridinyl)methyl]- (9CI) (CA INDEX NAME)



RN 565214-35-9 CAPLUS
CN Propanamide, N-[(4-chlorophenyl)methyl]-2-[[6-(trifluoromethyl)-2-benzothiazolyl]hydrazono]- (9CI) (CA INDEX NAME)

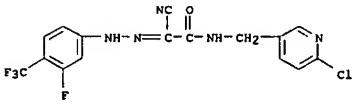


RN 565214-36-0 CAPLUS
CN Propanamide, N-[(6-chloro-3-pyridinyl)methyl]-2-[[6-(trifluoromethyl)-2-benzothiazolyl]hydrazono]- (9CI) (CA INDEX NAME)

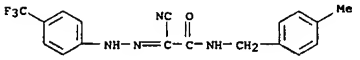


L7 ANSWER 5 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

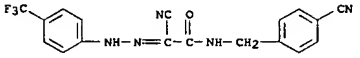
RN 565214-26-8 CAPLUS
CN Acetamide, N-[(6-chloro-3-pyridinyl)methyl]-2-cyano-2-[[3-fluoro-4-(trifluoromethyl)phenyl]hydrazono]- (9CI) (CA INDEX NAME)



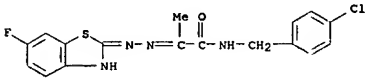
RN 565214-27-9 CAPLUS
CN Acetamide, 2-cyano-N-[(4-methylphenyl)methyl]-2-[[4-(trifluoromethyl)phenyl]hydrazono]- (9CI) (CA INDEX NAME)



RN 565214-28-0 CAPLUS
CN Acetamide, 2-cyano-N-[(4-cyanophenyl)methyl]-2-[[4-(trifluoromethyl)phenyl]hydrazono]- (9CI) (CA INDEX NAME)



RN 565214-31-5 CAPLUS
CN Propanamide, N-[(4-chlorophenyl)methyl]-2-[(6-fluoro-2-benzothiazolyl)hydrazono]- (9CI) (CA INDEX NAME)

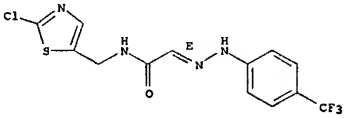


RN 565214-32-6 CAPLUS
CN Propanamide, N-[(6-chloro-3-pyridinyl)methyl]-2-[(6-fluoro-2-benzothiazolyl)hydrazono]- (9CI) (CA INDEX NAME)

L7 ANSWER 5 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

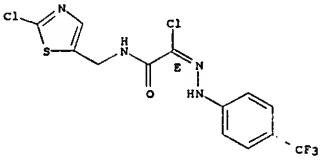
RN 565214-37-1 CAPLUS
CN Acetamide, N-[(2-chloro-5-thiazolyl)methyl]-2-[[4-(trifluoromethyl)phenyl]hydrazono]-, (2E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



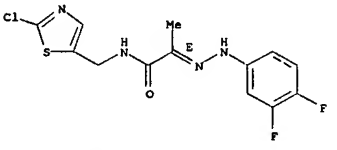
RN 565214-38-2 CAPLUS
CN Ethanehydrazonoyl chloride, 2-[[(2-chloro-5-thiazolyl)methyl]amino]-2-oxo-N-[4-(trifluoromethyl)phenyl]-, (1E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



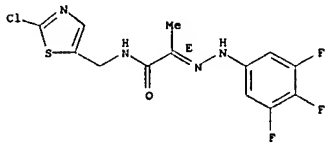
RN 565214-39-3 CAPLUS
CN Propanamide, N-[(2-chloro-5-thiazolyl)methyl]-2-[(3,4-difluorophenyl)hydrazono]-, (2E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



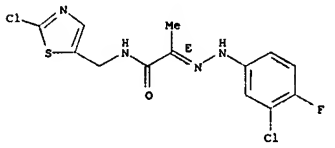
RN 565214-40-6 CAPLUS
CN Propanamide, N-[(2-chloro-5-thiazolyl)methyl]-2-[(3,4,5-trifluorophenyl)hydrazono]-, (2E)- (9CI) (CA INDEX NAME)

L7 ANSWER 5 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
Double bond geometry as shown.



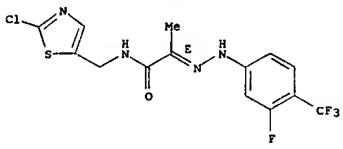
RN 565214-41-7 CAPLUS
CN Propanamide, 2-[(3-chloro-4-fluorophenyl)hydrazono]-N-[(2-chloro-5-thiazolyl)methyl]-, (2E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 565214-42-8 CAPLUS
CN Propanamide, N-[(2-chloro-5-thiazolyl)methyl]-2-[(3-fluoro-4-(trifluoromethyl)phenyl]hydrazono]-, (2E)- (9CI) (CA INDEX NAME)

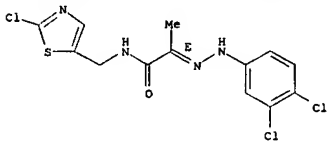
Double bond geometry as shown.



RN 565214-43-9 CAPLUS
CN Propanamide, N-[(2-chloro-5-thiazolyl)methyl]-2-[(3,5-difluoro-4-(trifluoromethyl)phenyl]hydrazono]-, (2E)- (9CI) (CA INDEX NAME)

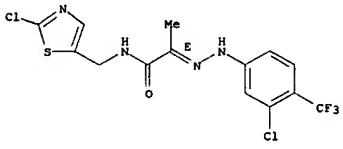
Double bond geometry as shown.

L7 ANSWER 5 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



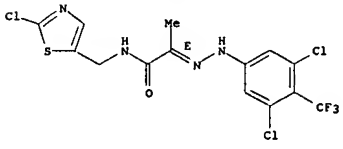
RN 565214-47-3 CAPLUS
CN Propanamide, N-[(2-chloro-5-thiazolyl)methyl]-2-[(3-chloro-4-(trifluoromethyl)phenyl]hydrazono]-, (2E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 565214-48-4 CAPLUS
CN Propanamide, N-[(2-chloro-5-thiazolyl)methyl]-2-[(3,5-dichloro-4-(trifluoromethyl)phenyl]hydrazono]-, (2E)- (9CI) (CA INDEX NAME)

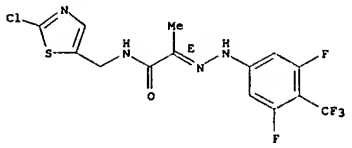
Double bond geometry as shown.



RN 565214-49-5 CAPLUS
CN Propanamide, N-[(2-chloro-5-thiazolyl)methyl]-2-[(4-chloro-3-(trifluoromethyl)phenyl]hydrazono]-, (2E)- (9CI) (CA INDEX NAME)

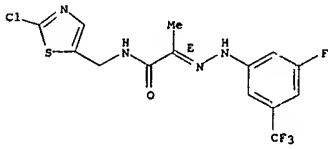
Double bond geometry as shown.

L7 ANSWER 5 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



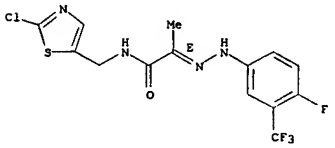
RN 565214-44-0 CAPLUS
CN Propanamide, N-[(2-chloro-5-thiazolyl)methyl]-2-[(3-fluoro-5-(trifluoromethyl)phenyl]hydrazono]-, (2E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 565214-45-1 CAPLUS
CN Propanamide, N-[(2-chloro-5-thiazolyl)methyl]-2-[(4-fluoro-3-(trifluoromethyl)phenyl]hydrazono]-, (2E)- (9CI) (CA INDEX NAME)

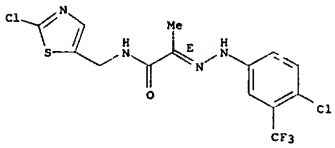
Double bond geometry as shown.



RN 565214-46-2 CAPLUS
CN Propanamide, N-[(2-chloro-5-thiazolyl)methyl]-2-[(3,4-dichlorophenyl)hydrazono]-, (2E)- (9CI) (CA INDEX NAME)

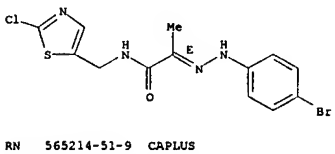
Double bond geometry as shown.

L7 ANSWER 5 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



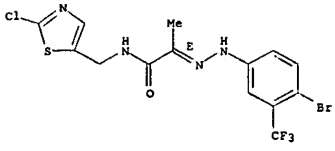
RN 565214-50-8 CAPLUS
CN Propanamide, 2-[(4-bromophenyl)hydrazono]-N-[(2-chloro-5-thiazolyl)methyl]-, (2E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 565214-51-9 CAPLUS
CN Propanamide, 2-[[4-bromo-3-(trifluoromethyl)phenyl]hydrazono]-N-[(2-chloro-5-thiazolyl)methyl]-, (2E)- (9CI) (CA INDEX NAME)

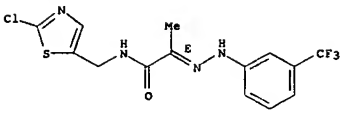
Double bond geometry as shown.



RN 565214-52-0 CAPLUS
CN Propanamide, N-[(2-chloro-5-thiazolyl)methyl]-2-[(3-(trifluoromethyl)phenyl]hydrazono]-, (2E)- (9CI) (CA INDEX NAME)

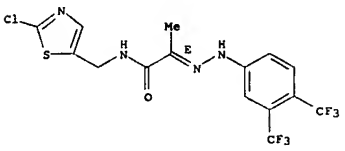
Double bond geometry as shown.

L7 ANSWER 5 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



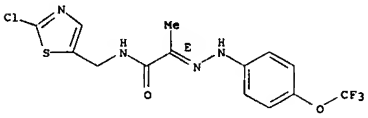
RN 565214-53-1 CAPLUS
CN Propanamide, 2-[[3,4-bis(trifluoromethyl)phenyl]hydrazono]-N-[(2-chloro-5-thiazolyl)methyl]-, (2E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 565214-54-2 CAPLUS
CN Propanamide, N-[(2-chloro-5-thiazolyl)methyl]-2-[[4-(trifluoromethoxy)phenyl]hydrazono]-, (2E)- (9CI) (CA INDEX NAME)

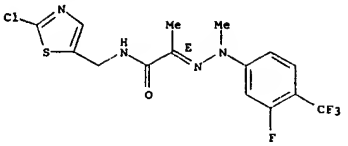
Double bond geometry as shown.



RN 565214-55-3 CAPLUS
CN Propanamide, N-[(2-chloro-5-thiazolyl)methyl]-2-[[3-fluoro-4-(trifluoromethyl)phenyl]methylhydrazono]-, (2E)- (9CI) (CA INDEX NAME)

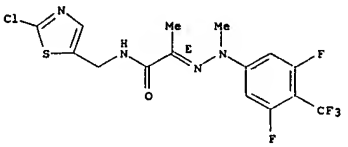
Double bond geometry as shown.

L7 ANSWER 5 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



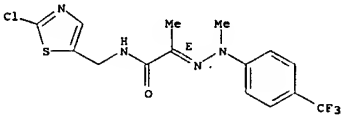
RN 565214-56-4 CAPLUS
CN Propanamide, N-[(2-chloro-5-thiazolyl)methyl]-2-[[3,5-difluoro-4-(trifluoromethyl)phenyl]methylhydrazono]-, (2E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 565214-57-5 CAPLUS
CN Propanamide, N-[(2-chloro-5-thiazolyl)methyl]-2-(methyl[4-(trifluoromethyl)phenyl]hydrazono]-, (2E)- (9CI) (CA INDEX NAME)

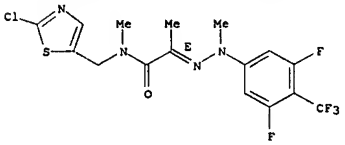
Double bond geometry as shown.



RN 565214-58-6 CAPLUS
CN Propanamide, N-[(2-chloro-5-thiazolyl)methyl]-2-[[3,5-difluoro-4-(trifluoromethyl)phenyl]methylhydrazono]-N-methyl-, (2E)- (9CI) (CA INDEX NAME)

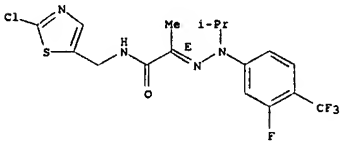
Double bond geometry as shown.

L7 ANSWER 5 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



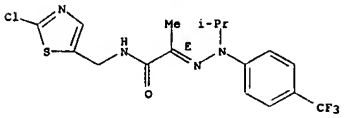
RN 565214-59-7 CAPLUS
CN Propanamide, N-[(2-chloro-5-thiazolyl)methyl]-2-[[3-fluoro-4-(trifluoromethyl)phenyl](1-methylethyl)hydrazono]-, (2E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



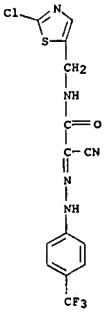
RN 565214-60-0 CAPLUS
CN Propanamide, N-[(2-chloro-5-thiazolyl)methyl]-2-[(1-methylethyl)[4-(trifluoromethyl)phenyl]hydrazono]-, (2E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



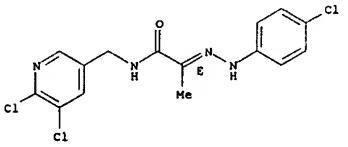
RN 565214-61-1 CAPLUS
CN Acetamide, N-[(2-chloro-5-thiazolyl)methyl]-2-cyano-2-[[4-(trifluoromethyl)phenyl]hydrazono]- (9CI) (CA INDEX NAME)

L7 ANSWER 5 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



RN 565214-62-2 CAPLUS
CN Propanamide, 2-[(4-chlorophenyl)hydrazono]-N-[(5,6-dichloro-3-pyridinyl)methyl]-, (2E)- (9CI) (CA INDEX NAME)

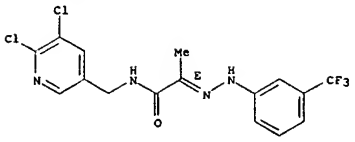
Double bond geometry as shown.



RN 565214-63-3 CAPLUS
CN Propanamide, N-[(5,6-dichloro-3-pyridinyl)methyl]-2-[[3-(trifluoromethyl)phenyl]hydrazono]-, (2E)- (9CI) (CA INDEX NAME)

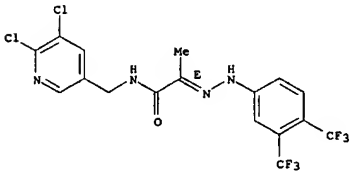
Double bond geometry as shown.

L7 ANSWER 5 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



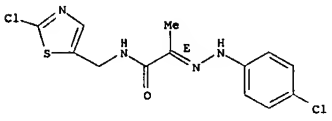
RN 565214-64-4 CAPLUS
CN Propanamide, 2-[[3,4-bis(trifluoromethyl)phenyl]hydrazono]-N-[(5,6-dichloro-3-pyridinyl)methyl]-, (2E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 565214-65-5 CAPLUS
CN Propanamide, 2-[(4-chlorophenyl)hydrazono]-N-[(2-chloro-5-thiazolyl)methyl]-, (2E)- (9CI) (CA INDEX NAME)

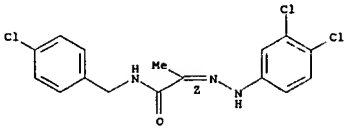
Double bond geometry as shown.



RN 565214-74-6 CAPLUS
CN Propanamide, N-[(4-chlorophenyl)methyl]-2-[(3,4-dichlorophenyl)hydrazono]-, (2Z)- (9CI) (CA INDEX NAME)

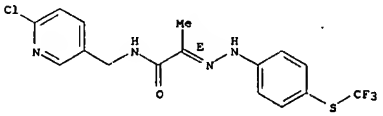
Double bond geometry as shown.

L7 ANSWER 5 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



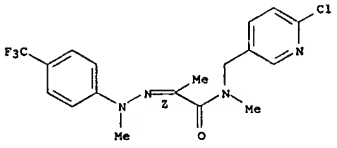
RN 565214-75-7 CAPLUS
CN Propanamide, N-[(6-chloro-3-pyridinyl)methyl]-2-[(4-[(trifluoromethyl)thio]phenyl]hydrazono]-, (2E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 565214-76-8 CAPLUS
CN Propanamide, N-[(6-chloro-3-pyridinyl)methyl]-N-methyl-2-[methyl[4-(trifluoromethyl)phenyl]hydrazono]-, (2Z)- (9CI) (CA INDEX NAME)

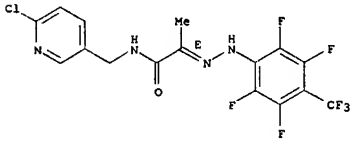
Double bond geometry as shown.



RN 565214-77-9 CAPLUS
CN Propanamide, N-[(6-chloro-3-pyridinyl)methyl]-2-[[2,3,5,6-tetrafluoro-4-(trifluoromethyl)phenyl]hydrazono]-, (2E)- (9CI) (CA INDEX NAME)

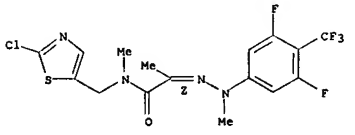
Double bond geometry as shown.

L7 ANSWER 5 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

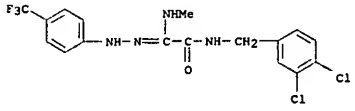


RN 565214-78-0 CAPLUS
CN Propanamide, N-[(2-chloro-5-thiazolyl)methyl]-2-[[3,5-difluoro-4-(trifluoromethyl)phenyl]methylhydrazono]-N-methyl-, (2Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

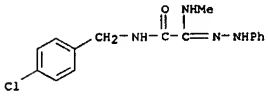


RN 565457-10-5 CAPLUS
CN Acetamide, N-[(3,4-dichlorophenyl)methyl]-2-(methylamino)-2-[[4-(trifluoromethyl)phenyl]hydrazono]-, (2E)- (9CI) (CA INDEX NAME)

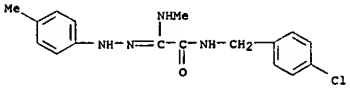


RN 565457-11-6 CAPLUS
CN Acetamide, N-[(4-chlorophenyl)methyl]-2-(methylamino)-2-(phenylhydrazono)-, (2E)- (9CI) (CA INDEX NAME)

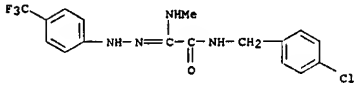
L7 ANSWER 5 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



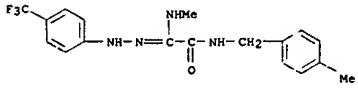
RN 565457-12-7 CAPLUS
CN Acetamide, N-[(4-chlorophenyl)methyl]-2-(methylamino)-2-[(4-methylphenyl)hydrazono]-, (2E)- (9CI) (CA INDEX NAME)



RN 565457-13-8 CAPLUS
CN Acetamide, N-[(4-chlorophenyl)methyl]-2-(methylamino)-2-[[4-(trifluoromethyl)phenyl]hydrazono]-, (2E)- (9CI) (CA INDEX NAME)

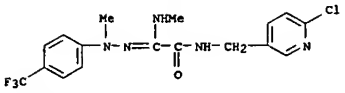


RN 565457-14-9 CAPLUS
CN Acetamide, 2-(methylamino)-N-[(4-methylphenyl)methyl]-2-[[4-(trifluoromethyl)phenyl]hydrazono]-, (2E)- (9CI) (CA INDEX NAME)

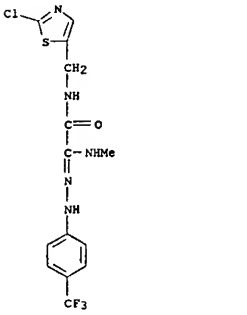


RN 565457-15-0 CAPLUS
CN Acetamide, N-[(6-chloro-3-pyridinyl)methyl]-2-(methylamino)-2-[methyl[4-(trifluoromethyl)phenyl]hydrazono]-, (2E)- (9CI) (CA INDEX NAME)

L7 ANSWER 5 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



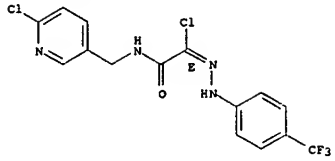
RN 565457-16-1 CAPLUS
CN Acetamide, N-[(2-chloro-5-thiazolyl)methyl]-2-(methylamino)-2-[[4-(trifluoromethyl)phenyl]hydrazono]-, (2E)- (9CI) (CA INDEX NAME)



IT 565211-32-7P
RL: AGR (Agricultural use); BSU (Biological study, unclassified); PRP (Properties); RCT (Reactant); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
(insecticides containing novel hydrazone derivs.)
RN 565211-32-7 CAPLUS
CN Ethanehydrazonoyl chloride, 2-[[(6-chloro-3-pyridinyl)methyl]amino]-2-oxo-N-[4-(trifluoromethyl)phenyl]-, (1E)- (9CI) (CA INDEX NAME)

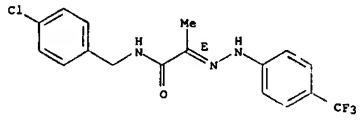
Double bond geometry as shown.

L7 ANSWER 5 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



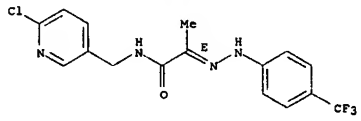
IT 565211-89-4P 565211-90-7P 565212-20-6P
565212-36-4P 565212-37-5P 565212-54-6P
565212-97-7P 565213-11-8P 565213-12-9P
565457-09-2P
RL: AGR (Agricultural use); BSU (Biological study, unclassified); PRP (Properties); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(insecticides containing novel hydrazone derivs.)
RN 565211-89-4 CAPLUS
CN Propanamide, N-[(4-chlorophenyl)methyl]-2-[[4-(trifluoromethyl)phenyl]hydrazono]-, (2E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 565211-90-7 CAPLUS
CN Propanamide, N-[(6-chloro-3-pyridinyl)methyl]-2-[[4-(trifluoromethyl)phenyl]hydrazono]-, (2E)- (9CI) (CA INDEX NAME)

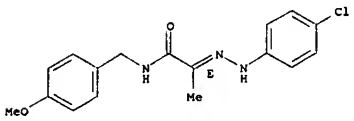
Double bond geometry as shown.



RN 565212-20-6 CAPLUS

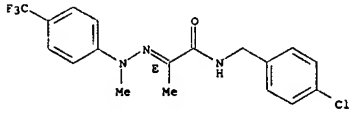
L7 ANSWER 5 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
CN Propanamide, 2-[(4-chlorophenyl)hydrazono]-N-[(4-methoxyphenyl)methyl]-, (2E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



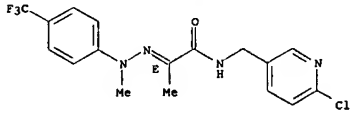
RN 565212-36-4 CAPLUS
CN Propanamide, N-[(4-chlorophenyl)methyl]-2-[methyl[4-(trifluoromethyl)phenyl]hydrazono]-, (2E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 565212-37-5 CAPLUS
CN Propanamide, N-[(6-chloro-3-pyridinyl)methyl]-2-[methyl[4-(trifluoromethyl)phenyl]hydrazono]-, (2E)- (9CI) (CA INDEX NAME)

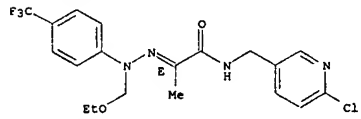
Double bond geometry as shown.



RN 565212-54-6 CAPLUS
CN Propanamide, N-[(6-chloro-3-pyridinyl)methyl]-2-[(ethoxymethyl)[4-(trifluoromethyl)phenyl]hydrazono]-, (2E)- (9CI) (CA INDEX NAME)

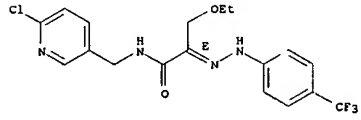
Double bond geometry as shown.

L7 ANSWER 5 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



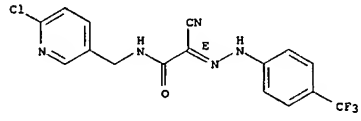
RN 565212-97-7 CAPLUS
CN Propanamide, N-[(6-chloro-3-pyridinyl)methyl]-3-ethoxy-2-[[4-(trifluoromethyl)phenyl]hydrazono]-, (2E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



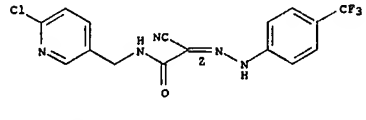
RN 565213-11-8 CAPLUS
CN Acetamide, N-[(6-chloro-3-pyridinyl)methyl]-2-cyano-2-[[4-(trifluoromethyl)phenyl]hydrazono]-, (2E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



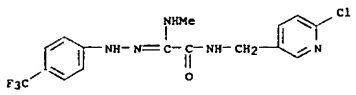
RN 565213-12-9 CAPLUS
CN Acetamide, N-[(6-chloro-3-pyridinyl)methyl]-2-cyano-2-[[4-(trifluoromethyl)phenyl]hydrazono]-, (2Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

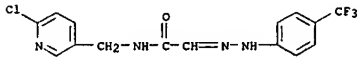


RN 565457-09-2 CAPLUS

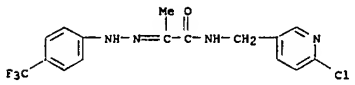
L7 ANSWER 5 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
CN Acetamide, N-[(6-chloro-3-pyridinyl)methyl]-2-(methylamino)-2-[[4-(trifluoromethyl)phenyl]hydrazono]-, (2E)- (9CI) (CA INDEX NAME)



IT 565214-72-4P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(intermediate; in preparation of hydrazone derivs. as pesticides)
RN 565214-72-4 CAPLUS
CN Acetamide, N-[(6-chloro-3-pyridinyl)methyl]-2-[[4-(trifluoromethyl)phenyl]hydrazono]- (9CI) (CA INDEX NAME)

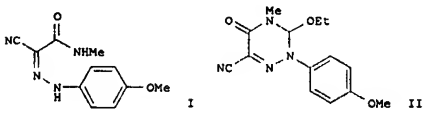


IT 565214-67-7
RL: RCT (Reactant); RACT (Reactant or reagent)
(reactant; in preparation of hydrazone derivs. as pesticides)
RN 565214-67-7 CAPLUS
CN Propanamide, N-[(6-chloro-3-pyridinyl)methyl]-2-[[4-(trifluoromethyl)phenyl]hydrazono]- (9CI) (CA INDEX NAME)



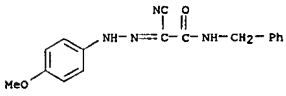
REFERENCE COUNT: 18 THERE ARE 18 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 6 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2001:436233 CAPLUS
DOCUMENT NUMBER: 135:226967
TITLE: Reactions of 2-arylhydrazonoacetamides with orthoesters. Synthesis of new tetrahydro-1,2,4-triazines
AUTHOR(S): Bel'skaya, N. P.; Zvereva, E. E.; Babushkina, L. A.; Bakulev, V. A.
CORPORATE SOURCE: Urals State Technical University, Yekaterinburg, 620002, Russia
SOURCE: Chemistry of Heterocyclic Compounds (New York, NY, United States)(Translation of Khimiya Geterotsiklicheskikh Soedinenii) (2001), Volume Date 2000, 36(9), 1066-1076
CODEN: CHCCAL; ISSN: 0009-3122
PUBLISHER: Consultants Bureau
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 135:226967
GI

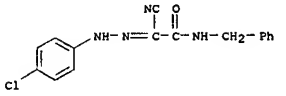


AB The reactions of arylhydrazonocyanoacetamides, e.g. I, with tri-Et orthoformate and tri-Et orthoacetate have been studied. Interaction of tri-Et orthoformate with amides bearing normal alkyl substituents on the carbamoyl group resulted in cyclization to 2-aryl-4-alkyl-5-oxo-3-ethoxy-2,3,4,5-tetrahydro-1,2,4-triazin-6-carbonitriles, e.g. II, whereas reaction of N-phenyl- and N-cyclohexylacetamides with tri-Et orthoformate gave products of ethylation at the hydrazone group. Reactions of the arylhydrazonocyanoacetamides with tri-Et orthoacetate led to the corresponding 2-(arylethylhydrazono)acetamides exclusively.
IT 359701-98-7 359701-99-8 359702-00-4
RL: RCT (Reactant); RACT (Reactant or reagent)
(cyclocondensation and ethylation of (arylhydrazono)cyanoacetamides with orthoesters to triazines and N-Et derivs.)
RN 359701-98-7 CAPLUS
CN Acetamide, 2-cyano-2-[(4-methoxyphenyl)hydrazono]-N-(phenylmethyl)- (9CI) (CA INDEX NAME)

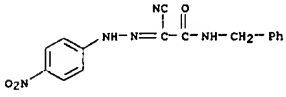
L7 ANSWER 6 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



RN 359701-99-8 CAPLUS
CN Acetamide, 2-[(4-chlorophenyl)hydrazono]-2-cyano-N-(phenylmethyl)- (9CI) (CA INDEX NAME)



RN 359702-00-4 CAPLUS
CN Acetamide, 2-cyano-2-[(4-nitrophenyl)hydrazono]-N-(phenylmethyl)- (9CI) (CA INDEX NAME)



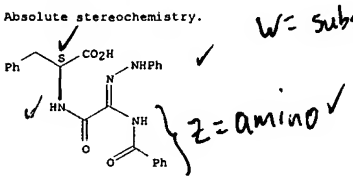
REFERENCE COUNT: 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 7 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2001:268634 CAPLUS
DOCUMENT NUMBER: 135:5813
TITLE: Antiviral peptides with non-natural amino acids
AUTHOR(S): Saito, Masato; Chiba, Takuo
CORPORATE SOURCE: Advanced Engineering Faculty, Akita National College of Technology, Japan
SOURCE: Akita Kogyo Koto Senmon Gakko Kenkyu Kiyo (2001), 36, 40-43
CODEN: AKKKEK; ISSN: 0285-5364
PUBLISHER: Akita Kogyo Koto Senmon Gakko
DOCUMENT TYPE: Journal
LANGUAGE: English
IDS#19
AB The surface protein of viruses, designated fusion (F1) peptide with hydrophobic amino acid sequences, has receptor-binding activity. We synthesized F1 peptide analogs via the oxazolone ring, which was easily prepared by ring closure of acyl-glycine. The active methylene group of oxazolone was transformed into the hydrazino group by reaction with diazonium compds. The reaction of amino acids with hydrazino-oxazolone, which has the intramol. active ester form, gave dipeptides having the amino acid with abnormal structure. Tripeptides were prepared by the usual manner from the non-natural dipeptides. The structure of all synthesized peptides was similar to that of the fusion peptide of viruses in which the basic amino acid combined with the neutral hydrophobic amino acid sequences. All peptides were tested for the antiviral activity.
IT 341032-77-7P 341032-82-4P 341032-88-0P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(antiviral peptides with non-natural amino acids)
RN 341032-77-7 CAPLUS
CN L-Phenylalanine, N-benzoyl-2-(phenylhydrazono)glycyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

W = subst. alkyl

102

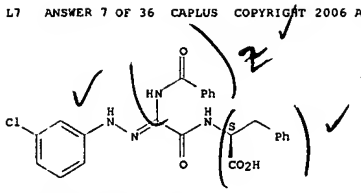


Z = amino

RN 341032-82-4 CAPLUS
CN L-Phenylalanine, N-benzoyl-2-[(3-chlorophenyl)hydrazono]glycyl- (9CI) (CA INDEX NAME)

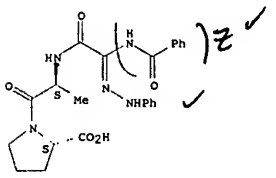
Absolute stereochemistry.

L7 ANSWER 7 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



RN 341032-88-0 CAPLUS
CN L-Proline, N-benzoyl-2-(phenylhydrazono)glycyl-L-alanyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

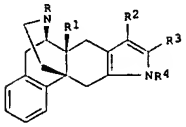


REFERENCE COUNT: 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE
FORMAT

L7 ANSWER 8 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2000:756708 CAPLUS
DOCUMENT NUMBER: 133:322035
TITLE: Preparation of morphinoid compounds as opiate receptor agonists
INVENTOR(S): Clarke, Stephen Edward; Dondio, Giulio; Raveglia, Luca Francesco; Ronzoni, Silvano
PATENT ASSIGNEE(S): Smithkline Beecham PLC, UK; Smithkline Beecham S.p.A.
SOURCE: PCT Int. Appl., 49 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000063210	A1	20001026	WO 2000-GB1516	20000419
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
IT 99MI0816	A1	20001020	IT 1999-MI816	19990420
IT 1312083	B1	20020404		
EP 1171441	A1	20020116	EP 2000-927435	20000419
EP 1171441	B1	20040609		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
JP 2002542247	T2	20021210	JP 2000-612300	20000419
AT 268773	E	20040615	AT 2000-927435	20000419
US 6696457	B1	20040224	US 2002-959020	20020402
PRIORITY APPLN. INFO.:			IT 1999-MI816 A	19990420
			WO 2000-GB1516 W	20000419

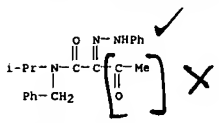
OTHER SOURCE(S): MARPAT 133:322035
GI



I

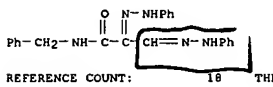
L7 ANSWER 8 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

AB The heterocycle-condensed morphinoid derivs. I (R = H, Me; R1 = H, OH, C1-5-alkoxy; R2 = C1-6-alkyl; R3 = COR7, R7 = iso-Pr, iso-Bu, EtO, iso-butoxy, NR8R9, R8, R9 = H, Et, iso-Pr, iso-Bu, cyclohexyl, Ph, benzyl 2-pyridylmethyl, 2,5-dimethylpiperazinyl, 2-phenylbutyl, 3-, 4-flurorbenzyl, 4-bromobenzyl, 4-(trifluoromethyl)benzyl, 4-isopropylbenzyl, R8R9 together form a C5 aromatic ring, which is fused at the 3 and 4 positions to a Ph ring to form a 2-isoquinolinyl ring; R4 = H, C1-6) alkyl were prepared as delta opioid receptor agonists. Thus the 10,4b-(iminoethano)phenanthro[3,2-b]pyrrole I (R = Me, R1 = OH, R2 = Me, R3 = CON(CHMe2)2, R4 = H) was treated with vinyl chloroformate containing proton sponge in 1,2-dichloroethane to give I (R = H, R1 = OH, R2 = Me, R3 = CON(CHMe2)2, R4 = H) (II). II showed superior in vitro metabolic stability at 1.3 mL/min/g liver compared to 5.7 for the N-Me compound
IT 193613-74-0
RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of morphinoid compds. as opiate receptor agonists)
RN 193613-74-0 CAPLUS
CN Butanamide, N-(1-methylethyl)-3-oxo-2-(phenylhydrazono)-N-(phenylmethyl)- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE
FORMAT

L7 ANSWER 9 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2000:458631 CAPLUS
DOCUMENT NUMBER: 133:222181
TITLE: Chemistry of diazopolycarbonyl compounds: VI. Reactions of 3-diazo-2-oxopropionic acid derivatives with phenylhydrazine
AUTHOR(S): Zalesov, V. V.; Vyaznikova, N. G.; Andreichikov, Yu. S.
CORPORATE SOURCE: Perm State University, Perm, 614600, Russia
SOURCE: Russian Journal of Organic Chemistry (Translation of Zhurnal Organicheskoi Khimii) (2000), 36(1), 55-59
CODEN: RJOCEQ; ISSN: 1070-4280
PUBLISHER: MAIK Nauka/Interperiodica Publishing
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 133:222181
AB 3-Diazo-2-oxopropionic acid esters and amides react with phenylhydrazine to afford osazones. The structure of the products and mechanism of their formation are discussed.
IT 291536-50-0P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation from phenylhydrazine and 3-diazo-2-oxopropionic acid derivs.)
RN 291536-50-0 CAPLUS
CN Propanamide, 2,3-bis(phenylhydrazono)-N-(phenylmethyl)- (9CI) (CA INDEX NAME)



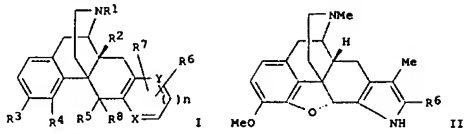
REFERENCE COUNT: 18 THERE ARE 18 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE
FORMAT

L7 ANSWER 10 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1997:549379 CAPLUS
DOCUMENT NUMBER: 127:162011
TITLE: Preparation of heterocycle-condensed morphinoid derivatives for use as analgesics
INVENTOR(S): Dondio, Giulio; Ronzoni, Silvano; Gatti, Pier Andrea; Graziani, Davide
PATENT ASSIGNEE(S): Smithkline Beecham S.P.A., Italy; Dondio, Giulio; Ronzoni, Silvano; Gatti, Pier Andrea; Graziani, Davide
SOURCE: PCT Int. Appl., 49 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

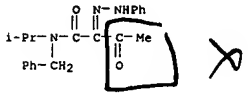
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9725331	A1	19970717	WO 1997-EP120	19970108
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, US, UZ, VN, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
CA 2242609	AA	19970717	CA 1997-2242609	19970108
AU 9714410	A1	19970801	AU 1997-14410	19970108
AU 706370	B2	19990617		
EP 880526	A1	19981202	EP 1997-901009	19970108
EP 880526	B1	20021218		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, FI, RO				
CN 1213372	A	19990407	CN 1997-192879	19970108
CN 1090190	B	20020904		
BR 9707136	A	19990831	BR 1997-7136	19970108
NZ 326331	A	20000128	NZ 1997-326331	19970108
JP 2000503019	T2	20000314	JP 1997-524871	19970108
AT 229958	E	20030115	AT 1997-901009	19970108
ES 2188888	T3	20030701	ES 1997-901009	19970108
ZA 9700172	A	19980709	ZA 1997-172	19970109
NO 9803169	A	19980909	NO 1998-3169	19980709
US 6365594	B1	20020402	US 1999-101213	19990222
PRIORITY APPLN. INFO.:			IT 1996-MI29 A	19960110
			IT 1996-MI2291 A	19961105
			WO 1997-EP120 W	19970108

OTHER SOURCE(S): MARPAT 127:162011
GI

L7 ANSWER 10 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



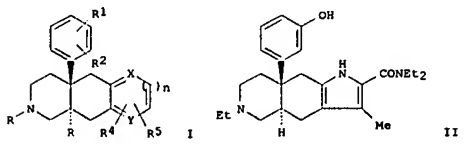
AB Substituted mono heterocycle-condensed morphinoid derivs. I [R1 = H, alkyl, cycloalkyl, alkenyl, aryl, aralkyl; R2 = H, OH, alkoxy, halogen, NO2, amino, SH; R3 = H, alkyl, OH, alkoxy, halogen; R4 = R5 = H, OH, alkoxy, OPh; or R4R5 = O; R6 = carboxamide, acyl, thioacyl, carboxyl; R7 = H, alkyl, alkenyl, halogen; R8 = H, alkyl; X = Y = CH, O, S, NR1; n = 0, 1], potent and selective delta opioid agonists and antagonists, were prepd for use as analgesics and for treating pathol. conditions which, customarily, can be treated with agonists and antagonists of the delta opioid receptor. Thus, morphinoid II [R6 = CON(CHMe2)CH2Ph] was prepared by cyclization of 7,8-dihydrocodeinone and N-benzyl-N-isopropyl-2-phenylhydrazone. The morphinoid compds. showed affinities for the delta receptor ranging from 0.5 to 200 nM with delta selectivity ranging from 20 - 1500 times with respect to other opioid receptor types.
IT 193613-74-0
RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of heterocycle-condensed morphinoid derivs., potent and selective delta opioid agonists and antagonists, for analgesic and other pharmacol. uses)
RN 193613-74-0 CAPLUS
CN Butanamide, N-(1-methylethyl)-3-oxo-2-(phenylhydrazono)-N-(phenylmethyl)-(9CI) (CA INDEX NAME)



L7 ANSWER 11 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1995:563367 CAPLUS
DOCUMENT NUMBER: 122:314536
TITLE: Preparation of pyrrolohydroisoquinolines as opioid receptor agonists and antagonists
INVENTOR(S): Dondio, Giulio; Ronzoni, Silvano
PATENT ASSIGNEE(S): SmithKline Beecham Farmaceutici S.p.A., Italy
SOURCE: PCT Int. Appl., 58 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

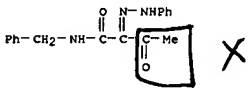
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9504734	A1	19950216	WO 1994-EP2325	19940714
W: AM, AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, ES, FI, GB, GE, HU, JP, KE, KG, KP, KR, KZ, LK, LT, LU, LV, MD, MG, MN, MW, NL, NO, NZ, PL, PT, RO, RU, SD, SE, SI, SK, TJ, TT, UA, US, UZ, VN				
RW: KE, MW, SD, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
CA 2168853	AA	19950216	CA 1994-2168853	19940714
AU 9474937	A1	19950228	AU 1994-74937	19940714
AU 690576	B2	19980430		
EP 712402	A1	19960522	EP 1994-924764	19940714
EP 712402	B1	20020410		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE				
CN 1132510	A	19961002	CN 1994-193633	19940714
CN 1043641	B	19990616		
AT 215949	E	20020415	AT 1994-924764	19940714
ES 2173921	T3	20021101	ES 1994-924764	19940714
ZA 9405831	A	19950322	ZA 1994-5831	19940804
US 5731322	A	19980324	US 1996-591514	19960418
PRIORITY APPLN. INFO.:			IT 1993-MI1788 A	19930806
			IT 1994-MI202 A	19940204
			WO 1994-EP2325 W	19940714

OTHER SOURCE(S): MARPAT 122:314536
GI

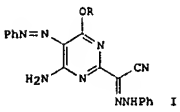


L7 ANSWER 11 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

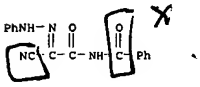
AB Pyrrolohydroisoquinolines I [R = H, alkyl, cycloalkyl, furanyl, etc.; R1, R2 = H, OH, alkoxy, halo, etc.; R3 = H, HO, alkoxy; R4 = (un)substituted aryl; R5 = H, alkyl, alkenyl, CF3, (un)substituted aryl; n = 0, 1; X, Y = NH, O, S, (un)substituted C], useful as analgesics, immunomodulators and cardiovascular agents, are prepared Thus, (-)-pyrroloisoquinoline II was prepared by cyclization of (-)-trans-2-ethyl-4a-(3-methoxyphenyl)-6-oxodecahydroisoquinoline hydrochloride with CH3COC(:NNHPh)CONEt2 followed by O-demethylation. The most potent I showed affinities for δ-opioid receptors ranging from 0.5 to 200 nM with a selectivity for the δ-receptor of 30-1500 times greater than that of other opioid receptor types.
IT 93818-88-3P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of hydroisoquinolines as opioid receptor agonists and antagonists)
RN 93818-88-3 CAPLUS
CN Butanamide, 3-oxo-2-(phenylhydrazono)-N-(phenylmethyl)- (9CI) (CA INDEX NAME)



L7 ANSWER 12 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1994:534063 CAPLUS
DOCUMENT NUMBER: 121:134063
TITLE: Studies with polyfunctionally substituted heteroaromatics: arylhydrazononitriles for the synthesis of polyfunctionally substituted azines
AUTHOR(S): Elnagdi, Mohamed Hilmy; Elghandour, Ahmed Hafez Hussien; Harb, Abdel Fattah Ali; Hussien, Abdel Haleem Mostafa; Metwally, Saoud Abdel Meniem
CORPORATE SOURCE: Dep. Chem., Cairo Univ., Giza, Egypt
SOURCE: Heterocycles (1994), 38(4), 739-50
CODEN: HTCYAM; ISSN: 0385-5414
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 121:134063
GI



AB The reaction of arylhydrazononitriles with naphthols, phenols and glycine is reported. Thus, reaction of PhNHN:C(CN)2 with 2-naphthol (ROH) gave PhNHN:C(CN)C(:NH)OR which on refluxing in pyridine in the presence of copper acetate gave I.
IT 157020-78-5P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and cyclization of)
RN 157020-78-5 CAPLUS
CN Benzamide, N-[cyano(phenylhydrazono)acetyl]- (9CI) (CA INDEX NAME)

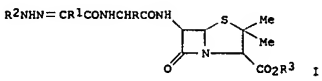


Z = CN

L7 ANSWER 13 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1992:173885 CAPLUS
DOCUMENT NUMBER: 116:173885
TITLE: Preparation of new α-aminoacylpenicillin derivatives
INVENTOR(S): Obracaj, Ruth; Teubner, Herbert; Quittschorr, Gisela; Titze, Helmut; Lohmann, Dieter
PATENT ASSIGNEE(S): Arzneimittelwerk Dresden G.m.b.H., Germany
SOURCE: Ger. (East), 5 pp.
CODEN: GEXXA8
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DD 295384	A5	19911031	DD 1988-322603	19881205
PRIORITY APPLN. INFO.:			DD 1988-322603	19881205

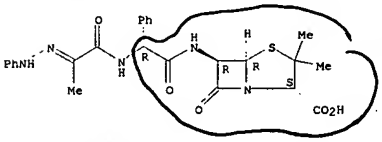
OTHER SOURCE(S): MARPAT 116:173885
GI



AB Penicillins I [R = Ph, MeC6H4, ClC6H4, HOC6H4, 2,6-(MeO)2C6H3; R1 = H, alkyl, acyl, substituted aryl; R2 = aryl, substituted aryl, heterocyclic, alkoxycarbonyl; R3 = H, cation, ester group] were prepared from the aminoacetamidopenam and R2NHN:CR1CO2H. Thus, reaction of ampicillin Na salt with PhNHN:CMeCO2H gave 62% I (R = R2 = Ph, R1 = Me, R3 = H).
IT 139959-20-9P 139959-24-3P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 139959-20-9 CAPLUS
CN 4-Thia-1-azabicyclo[3.2.0]heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-[[[[1-oxo-2-(phenylhydrazono)propyl]amino]phenylacetyl]amino]-, [2S-[2α,5α,6β(S*)]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.

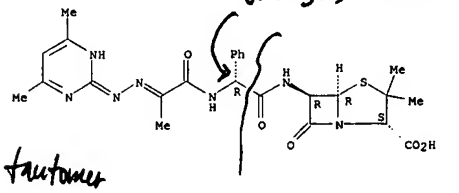
L7 ANSWER 13 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



subst. alkyl ✓
102

RN 139959-24-3 CAPLUS
CN 4-Thia-1-azabicyclo[3.2.0]heptane-2-carboxylic acid, 6-[[[[2-[(4,6-dimethyl-2-pyrimidinyl)hydrazono]-1-oxopropyl]amino]phenylacetyl]amino]-3,3-dimethyl-7-oxo-, [2S-[2α,5α,6β(S*)]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.

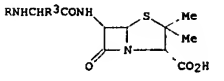


W = sub. alkyl
tautomer
Z = Me
X² = H

L7 ANSWER 14 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1992:128502 CAPLUS
DOCUMENT NUMBER: 116:128502
TITLE: Preparation of α-aminoacylpenicilline as antibiotics
INVENTOR(S): Heinisch, Lothar; Hanschke, Klaus G.; Moellmann, Ute; Willitzer, Horst; Stengel, Knut; Thrum, Heinz; Stopsack, Heinz
PATENT ASSIGNEE(S): Akademie der Wissenschaften der DDR, Germany
SOURCE: Ger. (East), 8 pp.
CODEN: GEXXA8
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DD 294486	A5	19911002	DD 1984-268496	19841018
PRIORITY APPLN. INFO.:			DD 1984-268496	19841018

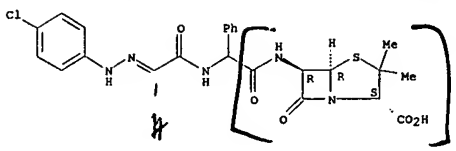
OTHER SOURCE(S): MARPAT 116:128502
GI



AB Title compds. [I; R = COCR1:NNHCOR2; R1 = H, allyl, aryl; R2 = alkenyl, (un)substituted aryl, heterocyclyl, etc.; R3 = (un)substituted Ph] were prepared Thus, ampicillin was condensed with HO2CCH:NNHCOC6H4(OPh)-4 to give I [R = COCH:NNHCOC6H4(OPh)-4, R3 = Ph] which were >20 times as active as ampicillin against Klebsiella pneumoniae SG 117 in vitro.
IT 139397-64-1P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(preparation of, as antibiotic)
RN 139397-64-1 CAPLUS
CN 4-Thia-1-azabicyclo[3.2.0]heptane-2-carboxylic acid, 6-[[[[[(4-chlorophenyl)hydrazono]acetyl]amino]phenylacetyl]amino]-3,3-dimethyl-7-oxo-, [2S-(2α,5α,6β)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.

L7 ANSWER 14 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

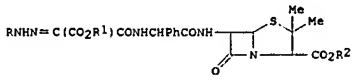


L7 ANSWER 15 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1991:655896 CAPLUS
DOCUMENT NUMBER: 115:255896
TITLE: Semisynthetic ampicillin arylhydrazones
INVENTOR(S): Schmidt, Hans Joerg; Scheffler, Reingard; Strobel, Juergen; Kammann, Guenter; Toenjes, Heinz; Poetter, Heinrich; Wichmann, Georg
PATENT ASSIGNEE(S): Arzneimittelwerk Dresden G.m.b.H., Germany
SOURCE: Ger. (East), 9 pp.
CODEN: GEXXA8
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DD 290888	A5	19910613	DD 1987-310017	19871207
PRIORITY APPLN. INFO.:			DD 1987-310017	19871207

OTHER SOURCE(S): MARPAT 115:255896
GI



I

AB Bactericidal (no data) penicillins I [R = Ph, substituted Ph, naphthyl; R1 = alkyl, aryl; R2 = H, Na, K, NH4] were prepared by acylating ampicillin with RNHN:C(CO2R1)CO2H. Thus, 2-ClC6H4NH2 was diazotized and treated with CH2(CO2Me)2 to give 2-ClC6H4NHN:C(CO2Me)2 which was hydrolyzed to the mono ester and used to acylate ampicillin, giving I (R = 2-ClC6H4, R1 = Me, R2 = Na).

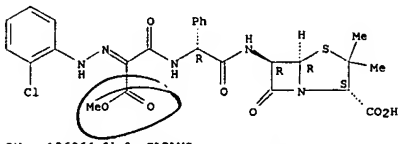
IT 136966-30-8P 136966-31-9P 136966-32-0P
136966-33-1P 136966-34-2P 136966-35-3P
136966-36-4P 136966-37-5P 136966-38-6P
136966-39-7P 136966-40-0P 136966-41-1P
136966-42-2P 136966-43-3P 136966-44-4P
136966-45-5P 136966-46-6P 136966-47-7P
136966-48-8P 136966-49-9P 136966-50-2P
136966-51-3P 136966-52-4P 136966-53-5P
136966-54-6P 136966-55-7P 136966-56-8P
136966-57-9P 136966-58-0P 136966-59-1P
136966-60-4P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 136966-30-8 CAPLUS
CN 4-Thia-1-azabicyclo[3.2.0]heptane-2-carboxylic acid, 6-[[[[2-[(2-

L7 ANSWER 15 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

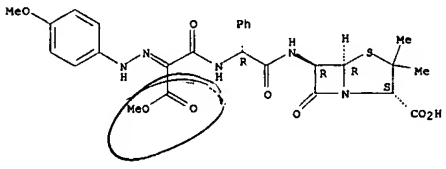
chlorophenyl)hydrazono]-3-methoxy-1,3-dioxopropyl]amino]phenylacetyl]amino]-3,3-dimethyl-7-oxo-, [2S-[2α,5α,6β(S*)]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.



RN 136966-31-9 CAPLUS
CN 4-Thia-1-azabicyclo[3.2.0]heptane-2-carboxylic acid, 6-[[[[3-methoxy-2-[(4-methoxyphenyl)hydrazono]-1,3-dioxopropyl]amino]phenylacetyl]amino]-3,3-dimethyl-7-oxo-, monosodium salt, [2S-[2α,5α,6β(S*)]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.

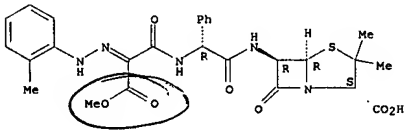


● Na

RN 136966-32-0 CAPLUS
CN 4-Thia-1-azabicyclo[3.2.0]heptane-2-carboxylic acid, 6-[[[[3-methoxy-2-[(2-methylphenyl)hydrazono]-1,3-dioxopropyl]amino]phenylacetyl]amino]-3,3-dimethyl-7-oxo-, monosodium salt, [2S-[2α,5α,6β(S*)]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.

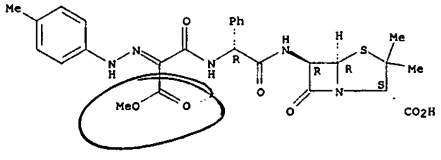
L7 ANSWER 15 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



● Na

RN 136966-33-1 CAPLUS
CN 4-Thia-1-azabicyclo[3.2.0]heptane-2-carboxylic acid, 6-[[[[3-methoxy-2-[(4-methylphenyl)hydrazono]-1,3-dioxopropyl]amino]phenylacetyl]amino]-3,3-dimethyl-7-oxo-, monosodium salt, [2S-[2α,5α,6β(S*)]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.

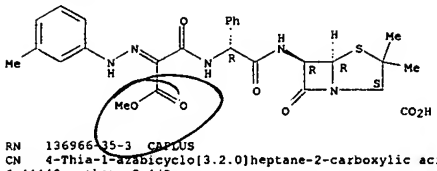


● Na

RN 136966-34-2 CAPLUS
CN 4-Thia-1-azabicyclo[3.2.0]heptane-2-carboxylic acid, 6-[[[[3-methoxy-2-[(3-methylphenyl)hydrazono]-1,3-dioxopropyl]amino]phenylacetyl]amino]-3,3-dimethyl-7-oxo-, [2S-[2α,5α,6β(S*)]]- (9CI) (CA INDEX NAME)

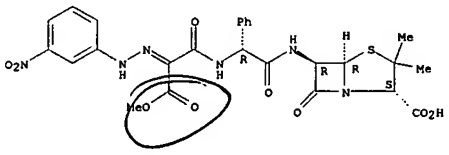
Absolute stereochemistry.
Double bond geometry unknown.

L7 ANSWER 15 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



RN 136966-35-3 CAPLUS
CN 4-Thia-1-azabicyclo[3.2.0]heptane-2-carboxylic acid, 6-[[[[3-methoxy-2-[(3-nitrophenyl)hydrazono]-1,3-dioxopropyl]amino]phenylacetyl]amino]-3,3-dimethyl-7-oxo-, monosodium salt, [2S-[2α,5α,6β(S*)]]- (9CI) (CA INDEX NAME)

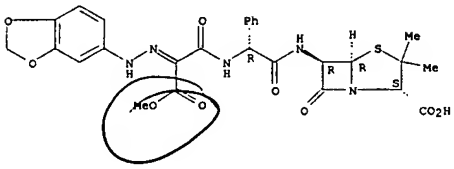
Absolute stereochemistry.
Double bond geometry unknown.



● Na

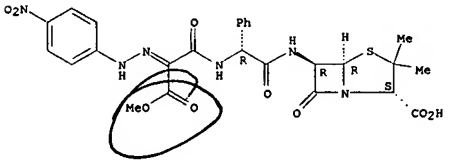
RN 136966-36-4 CAPLUS
CN 4-Thia-1-azabicyclo[3.2.0]heptane-2-carboxylic acid, 6-[[[[2-(1,3-benzodioxol-5-ylhydrazono)-3-methoxy-1,3-dioxopropyl]amino]phenylacetyl]amino]-3,3-dimethyl-7-oxo-, [2S-[2α,5α,6β(S*)]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.



L7 ANSWER 15 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
dimethyl-7-oxo-, monosodium salt, [2S-[2α,5α,6β(S*)]]- (9CI) (CA INDEX NAME)

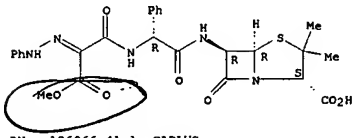
Absolute stereochemistry.
Double bond geometry unknown.



● Na

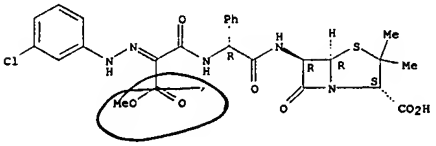
RN 136966-40-0 CAPLUS
CN 4-Thia-1-azabicyclo[3.2.0]heptane-2-carboxylic acid, 6-[[[[3-methoxy-1,3-dioxo-2-(phenylhydrazono)propyl]amino]phenylacetyl]amino]-3,3-dimethyl-7-oxo-, [2S-[2α,5α,6β(S*)]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.



RN 136966-41-1 CAPLUS
CN 4-Thia-1-azabicyclo[3.2.0]heptane-2-carboxylic acid, 6-[[[[2-[(3-chlorophenyl)hydrazono]-3-methoxy-1,3-dioxopropyl]amino]phenylacetyl]amino]-3,3-dimethyl-7-oxo-, [2S-[2α,5α,6β(S*)]]- (9CI) (CA INDEX NAME)

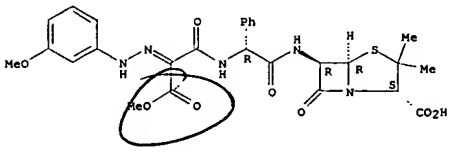
Absolute stereochemistry.
Double bond geometry unknown.



L7 ANSWER 15 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

RN 136966-37-5 CAPLUS
CN 4-Thia-1-azabicyclo[3.2.0]heptane-2-carboxylic acid, 6-[[[[3-methoxy-2-[(3-methoxyphenyl)hydrazono]-1,3-dioxopropyl]amino]phenylacetyl]amino]-3,3-dimethyl-7-oxo-, monosodium salt, [2S-[2α,5α,6β(S*)]]- (9CI) (CA INDEX NAME)

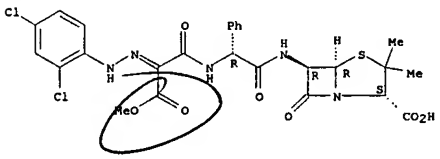
Absolute stereochemistry.
Double bond geometry unknown.



● Na

RN 136966-38-6 CAPLUS
CN 4-Thia-1-azabicyclo[3.2.0]heptane-2-carboxylic acid, 6-[[[[2-[(2,4-dichlorophenyl)hydrazono]-3-methoxy-1,3-dioxopropyl]amino]phenylacetyl]amino]-3,3-dimethyl-7-oxo-, monosodium salt, [2S-[2α,5α,6β(S*)]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.

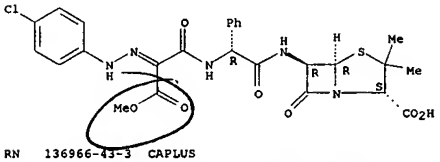


● Na

RN 136966-39-7 CAPLUS
CN 4-Thia-1-azabicyclo[3.2.0]heptane-2-carboxylic acid, 6-[[[[3-methoxy-2-[(4-nitrophenyl)hydrazono]-1,3-dioxopropyl]amino]phenylacetyl]amino]-3,3-

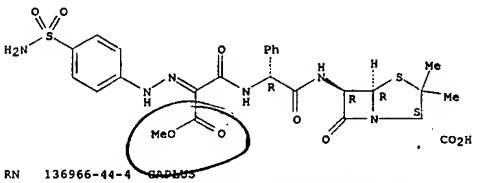
L7 ANSWER 15 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
RN 136966-42-2 CAPLUS
CN 4-Thia-1-azabicyclo[3.2.0]heptane-2-carboxylic acid, 6-[[[[2-[(4-chlorophenyl)hydrazono]-3-methoxy-1,3-dioxopropyl]amino]phenylacetyl]amino]-3,3-dimethyl-7-oxo-, [2S-[2α,5α,6β(S*)]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.



RN 136966-43-3 CAPLUS
CN 4-Thia-1-azabicyclo[3.2.0]heptane-2-carboxylic acid, 6-[[[[2-[[4-(aminosulfonyl)phenyl]hydrazono]-3-methoxy-1,3-dioxopropyl]amino]phenylacetyl]amino]-3,3-dimethyl-7-oxo-, [2S-[2α,5α,6β(S*)]]- (9CI) (CA INDEX NAME)

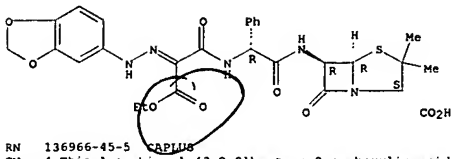
Absolute stereochemistry.
Double bond geometry unknown.



RN 136966-44-4 CAPLUS
CN 4-Thia-1-azabicyclo[3.2.0]heptane-2-carboxylic acid, 6-[[[[2-(1,3-benzodioxol-5-ylhydrazono)-3-ethoxy-1,3-dioxopropyl]amino]phenylacetyl]amino]-3,3-dimethyl-7-oxo-, [2S-[2α,5α,6β(S*)]]- (9CI) (CA INDEX NAME)

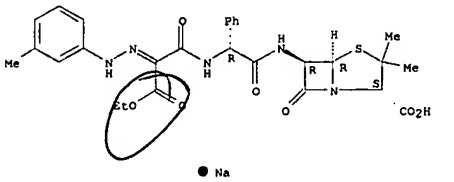
Absolute stereochemistry.
Double bond geometry unknown.

L7 ANSWER 15 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



RN 136966-45-5 CAPLUS
CN 4-Thia-1-azabicyclo[3.2.0]heptane-2-carboxylic acid, 6-[[[[3-ethoxy-2-[(3-methylphenyl)hydrazono]-1,3-dioxopropyl]amino]phenylacetyl]amino]-3,3-dimethyl-7-oxo-, monosodium salt, [2S-[2α,5α,6β(S*)]]- (9CI) (CA INDEX NAME)

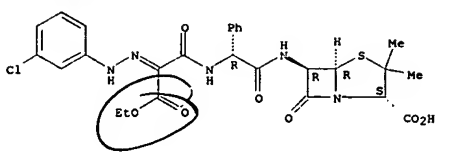
Absolute stereochemistry.
Double bond geometry unknown.



RN 136966-46-6 CAPLUS
CN 4-Thia-1-azabicyclo[3.2.0]heptane-2-carboxylic acid, 6-[[[[2-[(3-chlorophenyl)hydrazono]-3-ethoxy-1,3-dioxopropyl]amino]phenylacetyl]amino]-3,3-dimethyl-7-oxo-, monosodium salt, [2S-[2α,5α,6β(S*)]]- (9CI) (CA INDEX NAME)

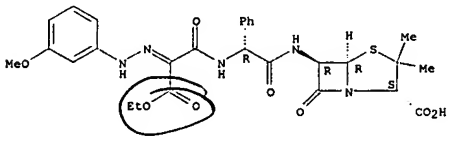
Absolute stereochemistry.
Double bond geometry unknown.

L7 ANSWER 15 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



RN 136966-47-7 CAPLUS
CN 4-Thia-1-azabicyclo[3.2.0]heptane-2-carboxylic acid, 6-[[[[3-ethoxy-2-[(3-methoxyphenyl)hydrazono]-1,3-dioxopropyl]amino]phenylacetyl]amino]-3,3-dimethyl-7-oxo-, monosodium salt, [2S-[2α,5α,6β(S*)]]- (9CI) (CA INDEX NAME)

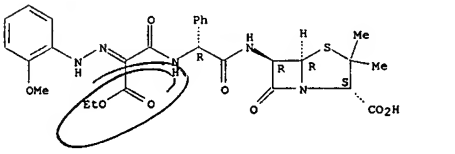
Absolute stereochemistry.
Double bond geometry unknown.



RN 136966-48-8 CAPLUS
CN 4-Thia-1-azabicyclo[3.2.0]heptane-2-carboxylic acid, 6-[[[[3-ethoxy-2-[(2-methoxyphenyl)hydrazono]-1,3-dioxopropyl]amino]phenylacetyl]amino]-3,3-dimethyl-7-oxo-, monosodium salt, [2S-[2α,5α,6β(S*)]]- (9CI) (CA INDEX NAME)

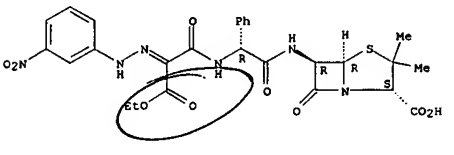
Absolute stereochemistry.
Double bond geometry unknown.

L7 ANSWER 15 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



RN 136966-49-9 CAPLUS
CN 4-Thia-1-azabicyclo[3.2.0]heptane-2-carboxylic acid, 6-[[[[3-ethoxy-2-[(3-nitrophenyl)hydrazono]-1,3-dioxopropyl]amino]phenylacetyl]amino]-3,3-dimethyl-7-oxo-, monosodium salt, [2S-[2α,5α,6β(S*)]]- (9CI) (CA INDEX NAME)

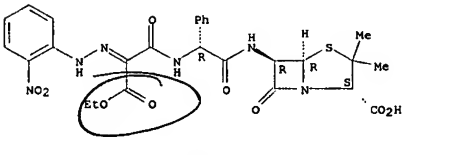
Absolute stereochemistry.
Double bond geometry unknown.



RN 136966-50-2 CAPLUS
CN 4-Thia-1-azabicyclo[3.2.0]heptane-2-carboxylic acid, 6-[[[[3-ethoxy-2-[(2-nitrophenyl)hydrazono]-1,3-dioxopropyl]amino]phenylacetyl]amino]-3,3-dimethyl-7-oxo-, monosodium salt, [2S-[2α,5α,6β(S*)]]- (9CI) (CA INDEX NAME)

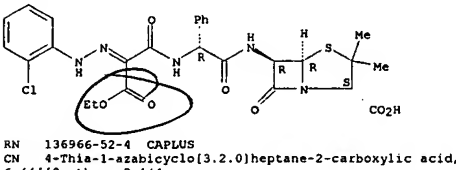
Absolute stereochemistry.
Double bond geometry unknown.

L7 ANSWER 15 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



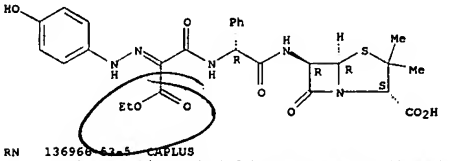
RN 136966-51-3 CAPLUS
CN 4-Thia-1-azabicyclo[3.2.0]heptane-2-carboxylic acid, 6-[[[[2-[(2-chlorophenyl)hydrazono]-3-ethoxy-1,3-dioxopropyl]amino]phenylacetyl]amino]-3,3-dimethyl-7-oxo-, [2S-[2α,5α,6β(S*)]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.



RN 136966-52-4 CAPLUS
CN 4-Thia-1-azabicyclo[3.2.0]heptane-2-carboxylic acid, 6-[[[[3-ethoxy-2-[(4-hydroxyphenyl)hydrazono]-1,3-dioxopropyl]amino]phenylacetyl]amino]-3,3-dimethyl-7-oxo-, [2S-[2α,5α,6β(S*)]]- (9CI) (CA INDEX NAME)

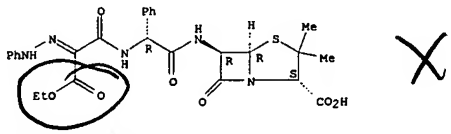
Absolute stereochemistry.
Double bond geometry unknown.



RN 136966-53-5 CAPLUS
CN 4-Thia-1-azabicyclo[3.2.0]heptane-2-carboxylic acid, 6-[[[[3-ethoxy-1,3-

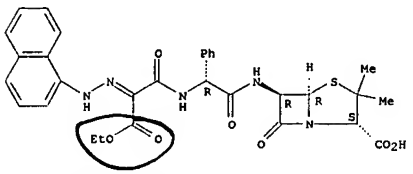
L7 ANSWER 15 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
dioxo-2-(phenylhydrazono)propyl]amino]phenylacetyl]amino]-3,3-dimethyl-7-oxo-, [2S-[2α,5α,6β(S*)]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.



RN 136966-54-6 CAPLUS
CN 4-Thia-1-azabicyclo[3.2.0]heptane-2-carboxylic acid, 6-[[[[3-ethoxy-2-(1-naphthalenylhydrazono)-1,3-dioxopropyl]amino]phenylacetyl]amino]-3,3-dimethyl-7-oxo-, [2S-[2α,5α,6β(S*)]]- (9CI) (CA INDEX NAME)

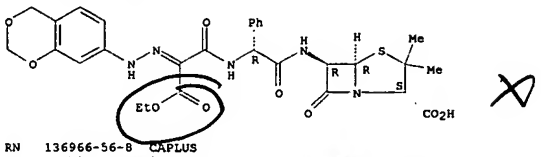
Absolute stereochemistry.
Double bond geometry unknown.



RN 136966-55-7 CAPLUS
CN 4-Thia-1-azabicyclo[3.2.0]heptane-2-carboxylic acid, 6-[[[[2-(4H-1,3-benzodioxin-7-ylhydrazono)-3-ethoxy-1,3-dioxopropyl]amino]phenylacetyl]amino]-3,3-dimethyl-7-oxo-, [2S-[2α,5α,6β(S*)]]- (9CI) (CA INDEX NAME)

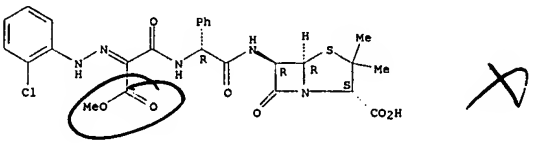
Absolute stereochemistry.
Double bond geometry unknown.

L7 ANSWER 15 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



RN 136966-56-8 CAPLUS
CN 4-Thia-1-azabicyclo[3.2.0]heptane-2-carboxylic acid, 6-[[[[2-[(2-chlorophenyl)hydrazono]-3-methoxy-1,3-dioxopropyl]amino]phenylacetyl]amino]-3,3-dimethyl-7-oxo-, monosodium salt, [2S-[2α,5α,6β(S*)]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.

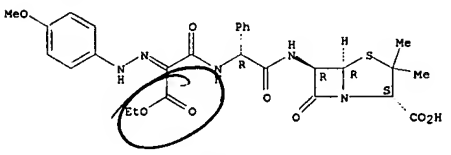


● Na

RN 136966-57-9 CAPLUS
CN 4-Thia-1-azabicyclo[3.2.0]heptane-2-carboxylic acid, 6-[[[[3-ethoxy-2-[(4-methoxyphenyl)hydrazono]-1,3-dioxopropyl]amino]phenylacetyl]amino]-3,3-dimethyl-7-oxo-, monosodium salt, [2S-[2α,5α,6β(S*)]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.

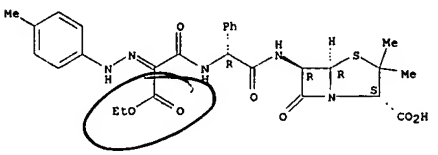
L7 ANSWER 15 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



● Na

RN 136966-58-0 CAPLUS
CN 4-Thia-1-azabicyclo[3.2.0]heptane-2-carboxylic acid, 6-[[[[3-ethoxy-2-[(4-methylphenyl)hydrazono]-1,3-dioxopropyl]amino]phenylacetyl]amino]-3,3-dimethyl-7-oxo-, monosodium salt, [2S-[2α,5α,6β(S*)]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.

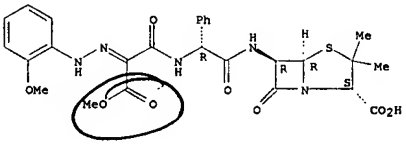


● Na

RN 136966-59-1 CAPLUS
CN 4-Thia-1-azabicyclo[3.2.0]heptane-2-carboxylic acid, 6-[[[[3-methoxy-2-[(2-methoxyphenyl)hydrazono]-1,3-dioxopropyl]amino]phenylacetyl]amino]-3,3-dimethyl-7-oxo-, monosodium salt, [2S-[2α,5α,6β(S*)]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.

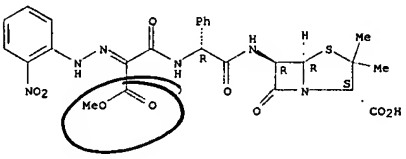
L7 ANSWER 15 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



● Na

RN 136966-60-4 CAPLUS
CN 4-Thia-1-azabicyclo[3.2.0]heptane-2-carboxylic acid, 6-[[[[3-methoxy-2-[(2-nitrophenyl)hydrazono]-1,3-dioxopropyl]amino]phenylacetyl]amino]-3,3-dimethyl-7-oxo-, monosodium salt, [2S-[2α,5α,6β(S*)]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.

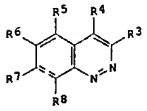


● Na

L7 ANSWER 16 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1988:186758 CAPLUS
DOCUMENT NUMBER: 108:186758
TITLE: Preparation and formulation of cinnolinecarboxamides as anxiolytics
INVENTOR(S): Resch, James F.
PATENT ASSIGNEE(S): ICI Americas, Inc., USA
SOURCE: Ger. (East), 37 pp.
CODEN: GEXXA8
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DD 249011	A5	19870826	DD 1986-291515	19860620
PRIORITY APPLN. INFO.:			DD 1986-291515	19860620

OTHER SOURCE(S): CASREACT 108:186758
GI

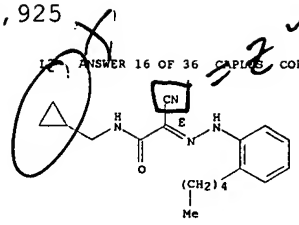


I

AB The title compds. [I; R3 = aminocarbonyl, alkoxycarbonyl, acyl; R4 = amino, hydroxy, alkoxy, acyloxy; R5-R8 = H, (substituted) alkyl, alkenyl, alkynyl, cycloalkyl, (substituted) aryl, alkoxy, alkenyloxy, OH, NO2, cyano, amino] were prepared as sedatives and tranquilizers. CH2:CHCH2NH2 was added to a mixture of 4-amino-8-pentyl-3-cinnolinecarboxylic acid and carbonyldiimidazole in DMF and the mixture was stirred at room temperature to give 85% I (R3 = CONHCHCH:CH2, R4 = NH2, R5 = R6 = R7 = R8 = H). I displaced flunitrazepam from rat cerebral cortex prepns. with IC50 ≤500 nM.
IT 114153-26-3P 114153-53-6P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of, as intermediate in preparation of cinnolinecarboxylate tranquilizer)
RN 114153-26-3 CAPLUS
CN Acetamide, 2-cyano-N-(cyclopropylmethyl)-2-[(2-pentylphenyl)hydrazono]-, (E)- (9CI) (CA INDEX NAME)

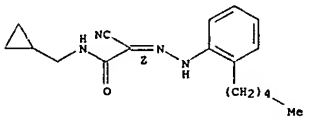
Double bond geometry as shown.

L7 ANSWER 16 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



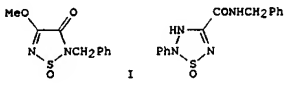
RN 114153-53-6 CAPLUS
CN Acetamide, 2-cyano-N-(cyclopropylmethyl)-2-[(2-pentylphenyl)hydrazono]-, (Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



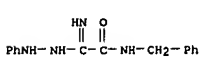
L7 ANSWER 17 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1986:626451 CAPLUS
DOCUMENT NUMBER: 105:226451
TITLE: 1,2,5-Thiadiazole 1-oxides. IV. Ring transformation to 1,2,3,5-thiatriazole and 1,2,4,6-thiatriazine 1-oxide
AUTHOR(S): Karady, Sandor; Amato, Joseph S.; Reamer, Robert A.; Weinstock, Leonard M.
CORPORATE SOURCE: Process Res. Dep., Merck Sharp Dohme Res. Lab., Rahway, NJ, 07065, USA
SOURCE: Tetrahedron Letters (1985), 26(50), 6155-8
CODEN: TELEAY; ISSN: 0040-4039
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 105:226451
GI

IDS #16



I II

AB 2-Alkyl-1,2,5-thiadiazole-3-one 1-oxides were converted to 1,2,3,5-thiatriazole 1-oxides and 1,2,4,6-thiatriazine 1-oxides. The postulated intermediate of these rearrangements, a sulfinylamine, was isolated. Thus the thiadiazolone oxide I was treated with PhNHNH2 to give the thiatriazole oxide II in 47% yield.
IT 105439-77-8P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 105439-77-8 CAPLUS
CN Ethanimidic acid, oxo[(phenylmethyl)amino]-, 2-phenylhydrazide (9CI) (CA INDEX NAME)

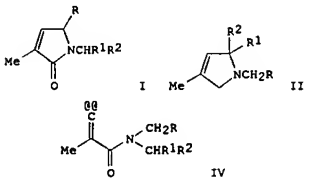


tautomer

Z = amino

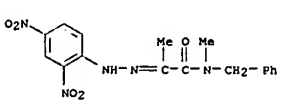
L7 ANSWER 18 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1986:590830 CAPLUS
DOCUMENT NUMBER: 105:190830
TITLE: Reactions of alkylidenecarbenes derived from N,N-disubstituted-2-oxopropanamides: the formation of 3-pyrrol-2-ones and 2-butynamides
AUTHOR(S): Gilbert, John C.; Blackburn, Brent K.
CORPORATE SOURCE: Dep. Chem., Univ. Texas, Austin, TX, 78712, USA
SOURCE: Journal of Organic Chemistry (1986), 51(19), 3656-63
CODEN: JOCEAH; ISSN: 0022-3263
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 105:190830
GI

IDS #15



I II IV

AB The treatment of title propanamides MeCOCON(CH2R)CHR1R2 [R = R2 = H, R1 = H, Pr, Ph; R = R1 = Me, R2 = H; RR1 = (CH2)3, R2 = H, Me; RR1 = CH2CH(CMe3)CH2, R2 = H] with (EtO)2P(O)CH:N2 under basic conditions gave 3-pyrrol-2-ones I and II and 2-butynamides MeC.tplbond.CCON(CH2R)CHR1R2 (III) via carbene intermediates IV. I and II were obtained by the 1,5 C-H insertion of IV, whereas III formed from a 1,2 shift in IV. A solvent effect that altered the relative ratio of I:III was observed A mechanism was discussed.
IT 103438-36-4P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 103438-36-4 CAPLUS
CN Propanamide, 2-[(2,4-dinitrophenyl)hydrazono]-N-methyl-N-(phenylmethyl)- (9CI) (CA INDEX NAME)

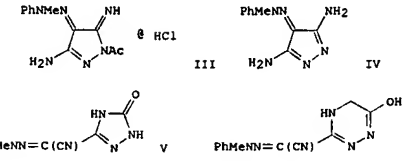


Z = Me

L7 ANSWER 18 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

L7 ANSWER 19 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN

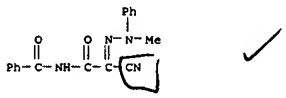
ACCESSION NUMBER: 1984:407123 CAPLUS
DOCUMENT NUMBER: 101:7123
TITLE: Reactions with arylhydrazones of α-cyano ketones. Part II. Synthesis of some new α-arylhydrazono nitriles
AUTHOR(S): Ibrahim, Mohamed Kamal Ahmed; Sadek, Kamal Usef
CORPORATE SOURCE: Fac. Sci., Minia Univ., Giza, Egypt
SOURCE: Polish Journal of Chemistry (1983), 57(1-3), 153-60
CODEN: PJCHDQ; ISSN: 0137-5083
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 101:7123
GI



AB PhMeNN:C(CN)CONHNHR (I, R = Ac, Bz, COCH2CO2Me, CO2Et) were obtained in 50-70% yields by acylation of I (R = H) with AcCl, BzCl, MeCOCH2CO2Et, and ClCO2Et. Acylation of PhMeNN:C(CN)C(NH2):NNH2 (II) by AcCl gave 65% dihydroiminopyrazole III which was treated with NH4OH to give 80% aminopyrazole IV. Treatment of II with BzCl gave 60% PhMeNN:C(CN)C(NHBz):NNH2 which was hydrolyzed to give 60% PhMeNN:C(CN)CONHBz. Treatment of II with ClCO2Et gave 75% triazolone V and cyclization of II with ClCH2CO2Et gave 65% triazine VI.

IT 88482-49-9P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and cyclocondensation with Et hydrazonoacetate)

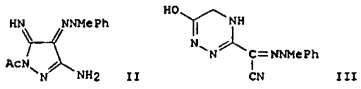
RN 88482-49-9 CAPLUS
CN Benzamide, N-[cyano(methylphenylhydrazono)acetyl]- (9CI) (CA INDEX NAME)



L7 ANSWER 19 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

L7 ANSWER 20 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN

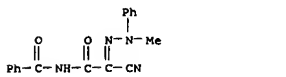
ACCESSION NUMBER: 1984:51507 CAPLUS
DOCUMENT NUMBER: 100:51507
TITLE: Reactions with arylhydrazones of α-cyanoketones: synthesis of new α-arylhydrazononitriles
AUTHOR(S): Kandeel, Ezzat M.; Ibrahim, Mohamed K.; Sadek, Kamal U.; Elnagdi, Mohamed H.
CORPORATE SOURCE: Fac. Sci., Mansoura Univ., Mansoura, Egypt
SOURCE: Archiv der Pharmazie (Weinheim, Germany) (1983), 316(12), 977-84
CODEN: ARPMAS; ISSN: 0365-6233
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 100:51507
GI



AB PhNMeN:C(CN)CONHNH2 and PhNMeN:C(CN)C(NH2):NNH2 (I) reacted with nucleophilic agents such as AcCl, BzCl, AcCH2CO2Et, ClCO2Et, Ac2CH2, H2CO, BzH, PhNCO, and PhNCS to give compds. such as PhNMeN:C(CN)CONHNHAc, PhNMeN:C(CN)C(:NNH2)NHCOCH2Ac, and PhNMeN:C(CN)CONHNHC(X)NHPh (X = O, S). Thus, I and AcCl gave 65% pyrazole II and I reacted with ClCH2CO2Et to give 65% triazine III.

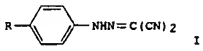
IT 88482-49-9P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 88482-49-9 CAPLUS
CN Benzamide, N-[cyano(methylphenylhydrazono)acetyl]- (9CI) (CA INDEX NAME)

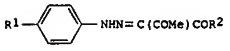


Same ↑

L7 ANSWER 21 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1983:181105 CAPLUS
DOCUMENT NUMBER: 98:181105
TITLE: Studies of the photochemical bleaching behavior of tautomeric monoazo dyes. III. Photochemical degradation of malononitrile 2- and acetylacetone 3-phenylhydrazones and their derivatives in polymer matrix
AUTHOR(S): Haessner, R.; Epperlein, J.
CORPORATE SOURCE: Direktorat Forsch. Entwickl., VEB Fotochem. Kombinat Wolfen, Wolfen, DDR-4440, Ger. Dem. Rep.
SOURCE: Journal fuer Signalaufzeichnungsmaterialien (1982), 10(5), 373-6
CODEN: JSZMAE; ISSN: 0323-598X
DOCUMENT TYPE: Journal
LANGUAGE: German
GI



I



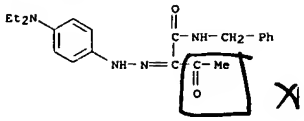
II

AB Photolysis by 660-nm light of I (R = H, NEt2) or II (R1 = H, Ac, Me, OMe, NEt2; R2 = Me, NHPh, NHCH2Ph) incorporated in polymer films and sensitized by methylene blue [61-73-4] gave CO2 and HCN in the case of I and only CO2 in the case of II. I (R = NEt2) [85415-01-6], II (R1 = NEt2, R2 = NHPh) [69674-89-1], and II (R1 = NEt2, R2 = NHCH2Ph) [85415-00-5] also formed 4-Et2NC6H4N2+ [21906-90-1]. Irradiation of I in a Xenotest apparatus resulted in complete disappearance of the CN band at 2200 cm-1.

IT 85415-00-5
RL: RCT (Reactant); RACT (Reactant or reagent)
(photodegrdn. of, in polymer matrix)

RN 85415-00-5 CAPLUS
CN Butanamide, 2-[[4-(diethylamino)phenyl]hydrazono]-3-oxo-N-(phenylmethyl)- (9CI) (CA INDEX NAME)

L7 ANSWER 21 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

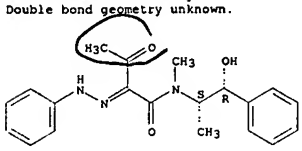


L7 ANSWER 22 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1977:468608 CAPLUS
DOCUMENT NUMBER: 87:68608
TITLE: Phenylhydrazone derivatives of N-acetoacetylamino compounds: a new antitachycardiac agent
AUTHOR(S): El-Abadelah, Mustafa M.; Sabri, Salim S.; Owais, Wajih, M.; Tabba, Hani D.
CORPORATE SOURCE: Chem. Dep., Jordan Univ., Amman, Jordan
SOURCE: Chemistry & Industry (London, United Kingdom) (1977), (5), 200-1
CODEN: CHINAG; ISSN: 0009-3068
DOCUMENT TYPE: Journal
LANGUAGE: English
AB The N-acetoacetyl derivs. of 20 amino acids and other amino compds. on treatment with a slight excess of PhN2+ Cl- in aqueous pyridine at 0-5° for 3-5 min gave 65-93% phenylhydrazones. E.g., DL-MeCOCH2CONHCHPhCO2Me with PhN2+ Cl- gave DL-MeCOC(:NNHPh)CONHCHPhCO2Me. N-acetoacetyl-(-)-ephedrine phenylhydrazone showed antitachycardiac activity at 1 mg/kg i.p. N-acetoacetyl-L-leucine phenylhydrazone showed slight herbicidal activity (no data). The UV and CD spectra of some of the phenylhydrazones are discussed.

IT 63701-33-7P
RL: SPN (Synthetic preparation); PREP (Preparation)
(antitachycardiac agent, preparation of)

RN 63701-33-7 CAPLUS
CN Butanamide, N-(2-hydroxy-1-methyl-2-phenylethyl)-N-methyl-3-oxo-2-(phenylhydrazono)-, [R-(R*,S*)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.

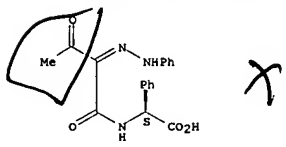


IT 63664-22-2P 63664-23-3P 63664-24-4P
63664-25-5P 63664-26-6P 63664-28-8P
63664-29-9P 63664-30-2P 63664-31-3P
63701-34-8P 63701-78-0P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 63664-22-2 CAPLUS
CN Benzeneacetic acid, α-[[1,3-dioxo-2-(phenylhydrazono)butyl]amino]-, (S)- (9CI) (CA INDEX NAME)

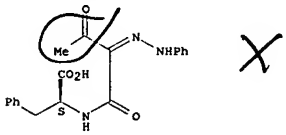
Absolute stereochemistry.
Double bond geometry unknown.

L7 ANSWER 22 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



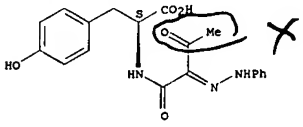
RN 63664-23-3 CAPLUS
CN L-Phenylalanine, N-[1,3-dioxo-2-(phenylhydrazono)butyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.



RN 63664-24-4 CAPLUS
CN L-Tyrosine, N-[1,3-dioxo-2-(phenylhydrazono)butyl]- (9CI) (CA INDEX NAME)

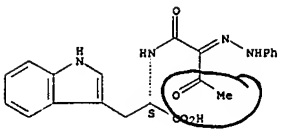
Absolute stereochemistry.
Double bond geometry unknown.



RN 63664-25-5 CAPLUS
CN L-Tryptophan, N-[1,3-dioxo-2-(phenylhydrazono)butyl]- (9CI) (CA INDEX NAME)

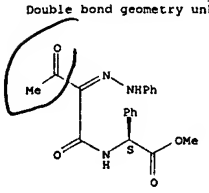
Absolute stereochemistry.
Double bond geometry unknown.

L7 ANSWER 22 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



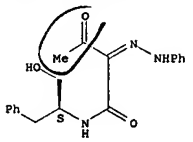
RN 63664-26-6 CAPLUS
CN Benzeneacetic acid, α-[[1,3-dioxo-2-(phenylhydrazono)butyl]amino]-, methyl ester, (S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.



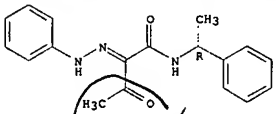
RN 63664-28-8 CAPLUS
CN Butanamide, N-[1-(hydroxymethyl)-2-phenylethyl]-3-oxo-2-(phenylhydrazono)-, (S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.

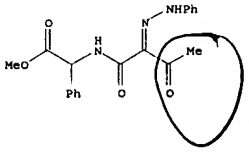


RN 63664-29-9 CAPLUS
CN Butanamide, 3-oxo-N-(1-phenylethyl)-2-(phenylhydrazono)-, (S)- (9CI) (CA INDEX NAME)

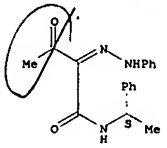
L7 ANSWER 22 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



RN 63701-78-0 CAPLUS
CN Benzeneacetic acid, α-[[1,3-dioxo-2-(phenylhydrazono)butyl]amino]-, methyl ester (9CI) (CA INDEX NAME)

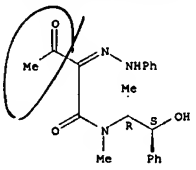


L7 ANSWER 22 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
Absolute stereochemistry.
Double bond geometry unknown.

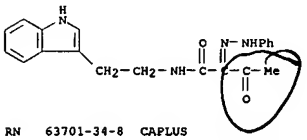


RN 63664-30-2 CAPLUS
CN Butanamide, N-(2-hydroxy-1-methyl-2-phenylethyl)-N-methyl-3-oxo-2-(phenylhydrazono)-, (R*,S*)- (9CI) (CA INDEX NAME)

Relative stereochemistry.
Double bond geometry unknown.



RN 63664-31-3 CAPLUS
CN Butanamide, N-[2-(1H-indol-3-yl)ethyl]-3-oxo-2-(phenylhydrazono)- (9CI) (CA INDEX NAME)

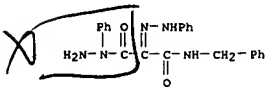


RN 63701-34-8 CAPLUS
CN Butanamide, 3-oxo-N-(1-phenylethyl)-2-(phenylhydrazono)-, (R)- (9CI) (CA INDEX NAME)

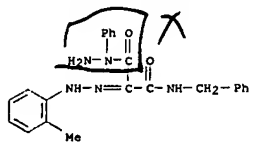
Absolute stereochemistry.
Double bond geometry unknown.

L7 ANSWER 23 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1973:453224 CAPLUS
DOCUMENT NUMBER: 79:53224
TITLE: Reactions with 3,5-pyrazolinediones. II. Behavior of 4-(arylazo)-1-phenylpyrazoline-3,5-diones towards Grignard reagents, amines, and diazomethane
AUTHOR(S): Elnagdi, Mohamed H.; Shawali, Ahmad S.; Elokbi, Mohamed R.
CORPORATE SOURCE: Fac. Sci., Univ. Cairo, Giza, Egypt
SOURCE: Indian Journal of Chemistry (1973), 11(3), 219-21
CODEN: IJOCAP; ISSN: 0019-5103
DOCUMENT TYPE: Journal
LANGUAGE: English
GI For diagram(s), see printed CA Issue.
AB 4-Arylazo-1-phenylpyrazolidine-3,5-diones (I) were treated with PhMgBr to give 4-arylazo-2,3-diphenyl-3-pyrazolin-3-ones II (R = H, 2-, 3-, or 4-Me). With benzylamine and piperidine, RC6H4NHN:C(COR1)COR2 (III, R1 = PhCH2NH, R2 = H2NNPh; R1 = piperidino, R2 = H2NNPh), resp. were obtained. The reaction of I with hydrazine hydrate gave III (R1 = H2NNH, R2 = H2NNPh; R1 = R2 = H2NNH), depending on reaction conditions. Similarly, phenylhydrazine reacted with I to give the hydrazides III (R1 = PhNHNH, R2 = H2NNPh; R = R1 = PhNHNH). Reaction of I with diazomethane affords the methoxy derivs. IV. Structure assignments were made on the basis of elemental and spectral (ir and uv) data.
IT 42468-97-3P 42468-98-4P 42468-99-5P
42469-00-1P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 42468-97-3 CAPLUS
CN Propanoic acid, 3-oxo-2-(phenylhydrazono)-3-[(phenylmethyl)amino]-, 1-phenylhydrazide (9CI) (CA INDEX NAME)

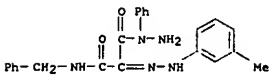


RN 42468-98-4 CAPLUS
CN Propanoic acid, 2-[(2-methylphenyl)hydrazono]-3-oxo-3-[(phenylmethyl)amino]-, 1-phenylhydrazide (9CI) (CA INDEX NAME)

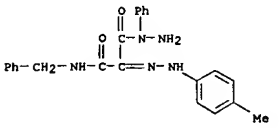


RN 42468-99-5 CAPLUS
CN Propanoic acid, 2-[(3-methylphenyl)hydrazono]-3-oxo-3-

L7 ANSWER 23 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
[(phenylmethyl)amino]-, 1-phenylhydrazide (9CI) (CA INDEX NAME)

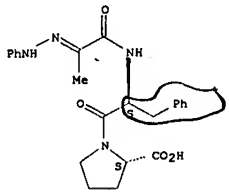


RN 42469-00-1 CAPLUS
CN Propanoic acid, 2-[(4-methylphenyl)hydrazono]-3-oxo-3-[(phenylmethyl)amino]-, 1-phenylhydrazide (9CI) (CA INDEX NAME)



L7 ANSWER 24 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1970:466882 CAPLUS
DOCUMENT NUMBER: 73:66882
TITLE: Derivatives of substituted 2-alkoxy-2-phenylacetamidocarboxylic acids
AUTHOR(S): Lucente, Gino; Lucente, Giovanna M.; Pantanella, Franco; Romeo, Aurelio
CORPORATE SOURCE: Ist. Chim. Farm. Tossicol., Univ. Roma, Rome, Italy
SOURCE: Annali di Chimica (Rome, Italy) (1970), 60(4), 259-71
CODEN: ANCRAI; ISSN: 0003-4592
DOCUMENT TYPE: Journal
LANGUAGE: Italian
GI For diagram(s), see printed CA Issue.
AB Pseudoxazolinones (I) are heated with alkanols R1OH to give R(R1O)C(NHCOCH2Ph)CO2R1 (R is H, Me, Ph, or an aralkyl group). A dipeptide derivative prepared from L-(-)-phenylalanine is treated with L-proline Me ester to give II.
IT 28332-92-5P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 28332-92-5 CAPLUS
CN Proline, 1-(3-phenyl-N-pyruvoyl-L-alanyl)-, mono(phenylhydrazone), L- (6CI, 8CI) (CA INDEX NAME)

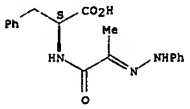
Absolute stereochemistry.
Double bond geometry unknown.



W = Subst. alkyl

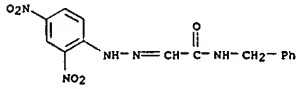
L7 ANSWER 25 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1968:503383 CAPLUS
DOCUMENT NUMBER: 69:103383
TITLE: Histidine decarboxylase of Lactobacillus 30a. IV. The presence of covalently bound pyruvate as the prosthetic group
AUTHOR(S): Riley, W. Dixon; Snell, Esmond E.
CORPORATE SOURCE: Univ. of California, Berkeley, CA, USA
SOURCE: Biochemistry (1968), 7(10), 3520-8
CODEN: BICHAW; ISSN: 0006-2960
DOCUMENT TYPE: Journal
LANGUAGE: English
AB Histidine decarboxylase (I) from Lactobacillus 30a did not require pyridoxal phosphate for activity but was inhibited by reduction with Na borohydride or by incubation with phenylhydrazine. In the latter reaction; 5 moles of phenylhydrazine-14C reacted/mole of enzyme to form a protein phenylhydrazone. This reaction was prevented by preliminary reduction with Na borohydride, and also by the substrate, L-histidine, but not by D-histidine. These findings indicated that a carbonyl group forms part of the active center of the enzyme. When the enzyme was reduced with tritiated Na borohydride, tritiated lactate could be isolated from hydrolyzates of the reduced protein, indicating that the unreduced enzyme contains bound pyruvate. There were indications that pyruvate is combined with a phenylalanine residue of the protein by an amide linkage. N-Pyruvoylphenylalanine, synthesized by nonenzymic transamination of alanylphenylalanine with pyridoxal, was converted into its phenylhydrazone and proved identical with the phenylhydrazone isolated from I in chromatographic, electrophoretic, and spectral properties. There were indications that the five pyruvoylphenylalanine residues in I occupy the N terminus of 5 of the 10 peptide chains of this enzyme. A mechanism for the participation of pyruvate in the decarboxylation of histidine similar to that suggested for the participation of pyridoxal phosphate in the catalytic action of other amino acid decarboxylases was discussed.
IT 20754-71-6P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 20754-71-6 CAPLUS
CN Alanine, 3-phenyl-N-pyruvoyl-, mono(phenylhydrazone), L- (8CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.

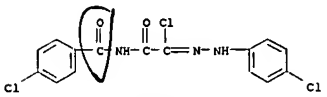


L7 ANSWER 26 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1967:473546 CAPLUS
DOCUMENT NUMBER: 67:73546
TITLE: Synthesis of methyl benzylpenillonate
AUTHOR(S): Jansen, Alexander B. A.; Robinson, Robert
CORPORATE SOURCE: Dyson Perrins Lab., Oxford, UK
SOURCE: Monatshefte fuer Chemie (1967), 98(3), 1017-26
CODEN: MOCHAP
DOCUMENT TYPE: Journal
LANGUAGE: English
GI For diagram(s), see printed CA Issue.
AB 2-Phenyloxazolone (0.54 g.) treated with 0.58 g. 4-methoxycarbonyl-5,5-dimethyl-2-thiazoline (I) in pyridine, and poured into HCl gave 0.35 g. Me phenylpenicillenate (Ia), m. 110-30°. When the reaction was carried out in Et2O, Me phenylpenillonate (II), m. 120-1°, was obtained. II was also obtained by the reaction of d-penicillamine Me ester-HCl and 2-phenyl-4-(ethoxymethylene)-oxazolone. II (0.2 g.) in 10 ml. MeOH was refluxed with Raney Ni for 3 hrs. to give 0.15 g. Me phenyldethiopenillonate, m. 118-19°. A mixture of 12 g. phenyl(bromoacetyl)glycine, 100 ml. Ac2O, and 30 ml. pyridine was kept at 0° for 30 min., then stirred into ice, and processed as usual to give 4.1 g. 2-benzylidenepseudooxazolone (III), m. 86-8°. III (3 g.) in 160 ml. dry Et2O was hydrogenated over Raney Ni at 75 atmospheric to give 2-benzyloxazolone, b0.05 90-100°; anilide m. 155-7°. A mixture of 1 ml. PhCH2NH2, 0.5 g. III, and 10 ml. C6H6 was kept 4 days to give α-(benzylamino)phenaceturic benzylamide, m. 142-3°. III (0.5 g.) kept in 1 ml. PhNH2 in 10 ml. C6H6 gave after 3 days α-anilinophenaceturic anilide, m. 165-6°. A mixture of 0.8 g. 2-benzyloxazolone in 8 ml. Et2O and 0.8 g. I in 10 ml. dry C6H6 was distilled until the vapor temperature reached 60°, and then refluxed 20 hrs. to give Me benzylpenillonate (IV), m. 149-50°. A mixture of 0.9 g. benzalaniline, 0.8 g. 2-phenyloxazolone, and 10 ml. dry pyridine was kept 15 min. to give α-benzamidocinnamic anilide, m. 229-31°.
IT 15545-36-5P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 15545-36-5 CAPLUS
CN Glyoxylamide, N-benzyl-, 2-[(2,4-dinitrophenyl)hydrazone] (8CI) (CA INDEX NAME)

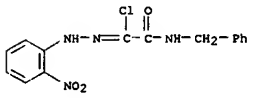
IDS #8



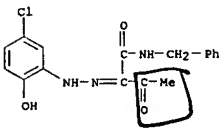
L7 ANSWER 27 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1966:447426 CAPLUS
DOCUMENT NUMBER: 65:47426
ORIGINAL REFERENCE NO.: 65:8814a-d
TITLE: Reactions of chlorides of arylazoacetic acids with aromatic amines, amides, and acid hydrazides
AUTHOR(S): Lozinskii, M. O.; Pel'kis, P. S.
CORPORATE SOURCE: Inst. Org. Chem., Kiev
SOURCE: Kh. Organ. Khim. (1966), 2(4), 692-7
DOCUMENT TYPE: Journal
LANGUAGE: Russian
AB Reaction of RC6H4NHN:CClCOCl with appropriate amines in hot C6H6 several hrs. gave RC6H4NHN: CCl-CONHC6H4R'-o (R and R' shown, resp.) o-MeO, PhNH, 47%, m. 158-9°; o-MeO, o-MeOC6H4NHN:CClCONH, 44%, m. 216-17°; p-Me, PhNH, 62%, m. 196-8°; p-Me, p-MeC6H4NHN:-CClCONH, 26%, m. 238-40°; p-Cl, PhNH, 49%, m. 179-81°; p-Cl, p-ClC6H4NHN: CClCONH, 39%, m. 259°; o-O2N, PhNH, 45%, m. 199-200°; p-Me, OH, 87%, m. 230-1.5°; o-MeO, HO, 91%, m. 235-6°. Similar reaction with p-MeC6H4SO2NH2 in pyridine converted p-tolylazochloroacetyl chloride into 27% yellow p-ClC6H4NHN: ClCONHO2SC6H4Me-p, m. 226-6.5°; similarly were obtained the analogs: o-nitrophenyl, m. 163-5°; and: p-ClC6H4NHN:ClCONHO2SPh m. 237-8°; p-ClC6H4NHN:-CClCONHCOC6H4Cl-p m. 263°. Reaction of o-methoxyphenylazochloroacetyl chloride with 2,4-dichlorophenoxyacethydrazide in CHCl3-pyridine 1 hr. gave RC6H4NHC:CClCONH-NHR' (R = o-MeO, R' = 2,4-Cl2C6H3OCH2CO), m. 160-1°. Similarly were prepared the analogs (R and R' shown): o-O2N, β-nicotinoyl, m. 215-16°; o-O2N, 2,4-Cl2C6H3OCH2CO, m. 190-1°; o-O2N, 2,3-(HO)C10H6CO, m. 249-51°; o-MeO, β-nicotinoyl, m., 171.5°; o-MeO, 2,3-(HO)C10H6CO, m. 251-2.5°; p-Me, 2,4-Cl2C6H3OCH2CO, m. 92-4°; p-Me, 2,3-(HO)C10H6CO, m. 238-9°; p-Cl, β-nicotinoyl. m. 146-7°; p-Cl, 2,4-Cl2C6H3OCH2CO, m. 94-6°; p-Cl, 2,3(HO)C10H6CO, m. 261-2°; o-O2N, p-MeC6H4SO2, m. 225-6°; o-MeO, p-MeC6H4SO2, m. 207-9°; p-Me, p-MeC6H4SO2, m. 192-3. Ir spectra reported.
IT 6767-92-6, Oxamoyl chloride, (p-chlorobenzoyl)-, 1-[(p-chlorophenyl)hydrazone] (preparation of)
RN 6767-92-6 CAPLUS
CN Oxamoyl chloride, (p-chlorobenzoyl)-, 1-[(p-chlorophenyl)hydrazone] (7CI, 8CI) (CA INDEX NAME)



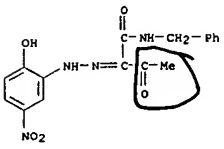
L7 ANSWER 28 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1966:51709 CAPLUS
DOCUMENT NUMBER: 64:51709
ORIGINAL REFERENCE NO.: 64:9619c-e
TITLE: Condensation and cyclization of arylazochloroacetic acids. V. Chlorides, arylamides, and acylhydrazides of arylazochloroacetic acids
AUTHOR(S): Lozinskii, M. O.; Pel'kis, P. S.
CORPORATE SOURCE: Inst. Org. Chem., Kiev
SOURCE: Zhurnal Obshchei Khimii (1965), 1(11), 1976-80
CODEN: ZOKHA4; ISSN: 0044-460X
DOCUMENT TYPE: Journal
LANGUAGE: Russian
AB cf. CA 64, 5063e. Heating arylazochloroacetic acids with 5 moles SOCl2 4 hrs. gave 21-76% ArNHN:CClCOCl: o-MeOC6H4, m. 131°; p-MeC6H4, m. 122-3°; o-ClC6H4, m. 114-15°; o-BrC6H4, m. 122°; o-IC6H4, m. 112.5°; m-ClC6H4, m. 155°; p-ClC6H4, m. 161-2°; p-BrC6H4, m. 150°; o-O2NC6H4, m. 146-7.5°; 2,5MeO(O2N)C6H3, m. 185-7°. Treatment of these with aryl amines in Me2CO 2 hrs. gave the amides RC6H4NHN:CClCOR' (R, R', and m.p. shown): p-Me, p-ClC6H4NH, m. 176-7.5°; p-Cl, p-NCSC6H4NH, m. 187-8.5°; o-O2N, m-MeC6H4NH, m. 166-7.5°; o-O2N, o-MeOC6H4NH, m. 212-13°; o-O2N, o-ClC6H4NH, m. 170-1°; o-O2N, m-ClC6H4NH, m. 190-2°; o-O2N, PhCH2NH, m. 154°; o-O2N, N-morpholinyl, m. 152-3°; the yields were 13-66%. Treatment of the chlorides with NCCH2CONHNH2 in pyridine-CHCl3 at reflux 25 min. gave 45-75%: RC6H4NHN:ClCONHNHCOR' (R, R', and m.p. shown): o-MeO, CH2CN, m. 219-20.5°; p-Me, CH2CN, m. 227-8° p-Cl, CH2CN, m. 227-9°; o-O2N, CH2CN, m. 240.5-42°. Similarly prepared were the following analogs: o-MeO, Ph, m. 192-4°; p-Me, Ph, m. 204-6°; p-Cl, Ph, m. 186-7°; o-O2N, Ph, m. 210-11.5°. Ir and uv spectra were reported.
IT 4912-50-9, Oxamoyl chloride, benzyl-, 1-[(o-nitrophenyl)hydrazone] (preparation of)
RN 4912-50-9 CAPLUS
CN Oxamoyl chloride, benzyl-, 1-[(o-nitrophenyl)hydrazone] (7CI, 8CI) (CA INDEX NAME)



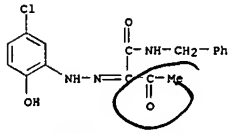
L7 ANSWER 29 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1964:28181 CAPLUS
DOCUMENT NUMBER: 60:28181
ORIGINAL REFERENCE NO.: 60:4964h,4965a
TITLE: Absorption spectra of azo dyes and their metal complexes. V. The electronic absorption spectra of metal-complexed hydroxyphenylazoacetoacetbenzylamides
AUTHOR(S): Yagi, Yoshiharu
CORPORATE SOURCE: Sumitomo Chem. Co., Ltd., Osaka
SOURCE: Bulletin of the Chemical Society of Japan (1963), 36(5), 512-17
CODEN: BCSJA8; ISSN: 0009-2673
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable
AB TheCr(III)andCo(III) complexes of α-(5-chloro-2-hydroxyphenylazo)acetoacetbenzylamide and other α-(phenylazo)acetoacetbenzylamides (I) were prepared Examination of the characteristic electronic absorption bands of I showed hypsochromic and hypochromic displacements, indicative of increased ionic character as compared to the metal complexes of α-(phenylazo)acetoacetanilides.
IT 93313-67-8, Butyramide, N-benzyl-2,3-dioxo-, 2-[(5-chloro-2-hydroxyphenyl)hydrezone] 94540-39-3, Butyramide, N-benzyl-2,3-dioxo-, 2-[(2-hydroxy-5-nitrophenyl)hydrazone] (spectrum and structure of)
RN 93313-67-8 CAPLUS
CN Butyramide, N-benzyl-2,3-dioxo-, 2-[(5-chloro-2-hydroxyphenyl)hydrazone] (7CI) (CA INDEX NAME)



RN 94540-39-3 CAPLUS
CN Butyramide, N-benzyl-2,3-dioxo-, 2-[(2-hydroxy-5-nitrophenyl)hydrazone] (7CI) (CA INDEX NAME)

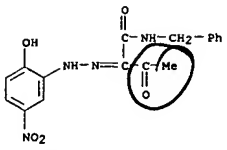


L7 ANSWER 30 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1964:28180 CAPLUS
DOCUMENT NUMBER: 60:28180
ORIGINAL REFERENCE NO.: 60:4964g-h
TITLE: Absorption spectra of azo dyes and their metal complexes. IV. The effects of substituents on the absorption spectra of chromium(III) and cobalt-(III) complexes of hydroxyphenylazoacetoacetanilides
AUTHOR(S): Yagi, Yoshiharu
CORPORATE SOURCE: Sumitomo Chem. Co., Ltd., Osaka
SOURCE: Bulletin of the Chemical Society of Japan (1963), 36(5), 506-12
CODEN: BCSJA8; ISSN: 0009-2673
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable
AB The effect of substitution in the Ph ring of various α-(2-hydroxyphenylazo)acetoacetanilides (I) on metal complex formation was investigated. Based on shifts of the 4 characteristic absorption bands, it was found that the substituent ortho or para to the M-O (M = metal, O = phenolic oxygen) bond generally altered the polarity of the M-O bond. Substituents meta to the M-O bond contributed to the dπ-pπ interaction between the hydrazone group and the M atom. The complexes were prepared by treatment of I with either Cr formate or CoSO4 (2:1) in the usual manner and were purified by columnchromatogaphy, utilizing activated alumina and EtOH.
IT 93313-67-8, Butyramide, N-benzyl-2,3-dioxo-, 2-[(5-chloro-2-hydroxyphenyl)hydrazone] 94540-39-3, Butyramide, N-benzyl-2,3-dioxo-, 2-[(2-hydroxy-5-nitrophenyl)hydrazone] (complexes with Cr and Co, spectra and structure of)
RN 93313-67-8 CAPLUS
CN Butyramide, N-benzyl-2,3-dioxo-, 2-[(5-chloro-2-hydroxyphenyl)hydrazone] (7CI) (CA INDEX NAME)

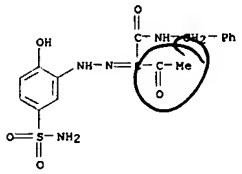


RN 94540-39-3 CAPLUS
CN Butyramide, N-benzyl-2,3-dioxo-, 2-[(2-hydroxy-5-nitrophenyl)hydrazone] (7CI) (CA INDEX NAME)

L7 ANSWER 30 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

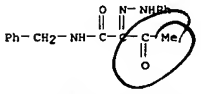


IT 94711-60-1, Butyramide, N-benzyl-2,3-dioxo-, 2-[(2-hydroxy-5-sulfamoylphenyl)hydrazone]
(complexes with metals, spectra and structure of)
RN 94711-60-1 CAPLUS
CN Butyramide, N-benzyl-2,3-dioxo-, 2-[(2-hydroxy-5-sulfamoylphenyl)hydrazone] (7CI) (CA INDEX NAME)



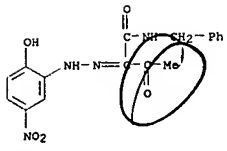
(spectrum and structure of

L7 ANSWER 31 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1964:28179 CAPLUS
DOCUMENT NUMBER: 60:28179
ORIGINAL REFERENCE NO.: 60:4964f-g
TITLE: Absorption spectra of azo dyes and their metal complexes. III. The electronic absorption spectra of metal complexes derived from hydroxyphenylazoacetoacetanilides
AUTHOR(S): Yagi, Yoshiharu
CORPORATE SOURCE: Sumitomo Chem. Co., Ltd., Osaka
SOURCE: Bulletin of the Chemical Society of Japan (1963), 36(5), 500-6
CODEN: BCSJA8; ISSN: 0009-2673
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable
AB The electronic absorption spectra of metal complexes of 2-[2-hydroxy-5-(N-ethylsulfamoyl)phenylazo]acetoacetanilide, α-(5-chloro-2-hydroxyphenylazo)acetoacetanilide, and other ligand dyes exhibit 4 characteristic bands which are also found in the resp. ligand-dye spectra. Complexes of Co(III), Fe(III), Cr(III), and Al were prepared and a structure is based on the bathochromic shifts of the ligand bands.
IT 93818-88-3, Butyramide, N-benzyl-2,3-dioxo-, 2-phenylhydrazone 94540-39-3, Butyramide, N-benzyl-2,3-dioxo-, 2-[(2-hydroxy-5-nitrophenyl)hydrazone] 94711-60-1, Butyramide, N-benzyl-2,3-dioxo-, 2-[(2-hydroxy-5-sulfamoylphenyl)hydrazone] 94959-91-8, Butyramide, N-benzyl-2,3-dioxo-, 2-[(o-hydroxyphenyl)hydrazone] 94995-44-5, Butyramide, N-benzyl-2,3-dioxo-, 2-[(6-hydroxy-m-tolyl)hydrazone]
(spectrum and structure of)
RN 93818-88-3 CAPLUS
CN Butanamide, 3-oxo-2-(phenylhydrazono)-N-(phenylmethyl)- (9CI) (CA INDEX NAME)

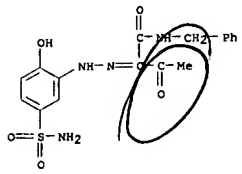


RN 94540-39-3 CAPLUS
CN Butyramide, N-benzyl-2,3-dioxo-, 2-[(2-hydroxy-5-nitrophenyl)hydrazone] (7CI) (CA INDEX NAME)

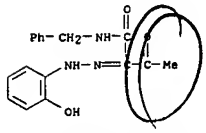
L7 ANSWER 31 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



RN 94711-60-1 CAPLUS
CN Butyramide, N-benzyl-2,3-dioxo-, 2-[(2-hydroxy-5-sulfamoylphenyl)hydrazone] (7CI) (CA INDEX NAME)

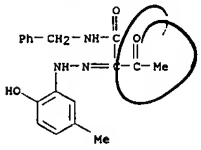


RN 94959-91-8 CAPLUS
CN Butyramide, N-benzyl-2,3-dioxo-, 2-[(o-hydroxyphenyl)hydrazone] (7CI) (CA INDEX NAME)



RN 94995-44-5 CAPLUS
CN Butyramide, N-benzyl-2,3-dioxo-, 2-[(6-hydroxy-m-tolyl)hydrazone] (7CI) (CA INDEX NAME)

L7 ANSWER 31 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

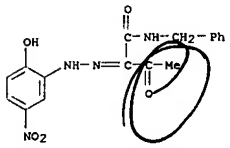


L7 ANSWER 32 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1964:28178 CAPLUS
DOCUMENT NUMBER: 60:28178
ORIGINAL REFERENCE NO.: 60:4964e-f
TITLE: Absorption spectra of azo dyes and their metal complexes. II. The absorption spectra of hydroxyphenylazoacetoacetamide and its derivatives
AUTHOR(S): Yagi, Yoshiharu
CORPORATE SOURCE: Sumitomo Chem. Co., Ltd., Osaka
SOURCE: Bulletin of the Chemical Society of Japan (1963), 36(5), 492-500
CODEN: BCSJA8; ISSN: 0009-2673
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable

AB The effects of substituents in the Ph ring of α-phenylazoacetoacetanilides (I) were investigated. The phenolic 2-OH group forms an intramol. H bond with a hydrazone N atom in the solid state and in nonpolar solvents. The following acetoacetamides were prepared: 1-acetoacetylamino-2-methoxy-5-methylbenzene, m. 82° (EtOH); 1-acetoacetylamino-2-chloro-6-methylbenzene, m. 123-4° (50% EtOH); aceto-acetylbenzylamine, m. 102-3° acetoacet-n-hexylamide, m. 52°. Treatment of the above compds. with diazotized phenols [i.e. 2-amino-4-(N-ethylsulfamoyl)phenol, m. 128°] gave I as α-(2-methoxyphenylazo)acetoacetanilide and α(2-hydroxy-5-sulfamoylphenylazo)acetoacet-2-methoxy-5-methylanilide. An explanation is given for the relation between absorption band displacements and positions of substituents in the phenolic ring.

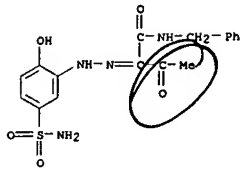
IT 94540-39-3, Butyramide, N-benzyl-2,3-dioxo-, 2-[(2-hydroxy-5-nitrophenyl)hydrazone] 94711-60-1, Butyramide, N-benzyl-2,3-dioxo-, 2-[(2-hydroxy-5-sulfamoylphenyl)hydrazone] 94959-91-8, Butyramide, N-benzyl-2,3-dioxo-, 2-[(o-hydroxyphenyl)hydrazone] 94995-44-5, Butyramide, N-benzyl-2,3-dioxo-, 2-[(6-hydroxy-m-tolyl)hydrazone] (spectrum and structure of)

RN 94540-39-3 CAPLUS
CN Butyramide, N-benzyl-2,3-dioxo-, 2-[(2-hydroxy-5-nitrophenyl)hydrazone] (7CI) (CA INDEX NAME)

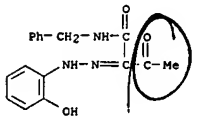


RN 94711-60-1 CAPLUS
CN Butyramide, N-benzyl-2,3-dioxo-, 2-[(2-hydroxy-5-sulfamoylphenyl)hydrazone] (7CI) (CA INDEX NAME)

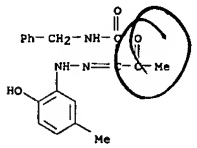
L7 ANSWER 32 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



RN 94959-91-8 CAPLUS
CN Butyramide, N-benzyl-2,3-dioxo-, 2-[(o-hydroxyphenyl)hydrazone] (7CI) (CA INDEX NAME)



RN 94995-44-5 CAPLUS
CN Butyramide, N-benzyl-2,3-dioxo-, 2-[(6-hydroxy-m-tolyl)hydrazone] (7CI) (CA INDEX NAME)



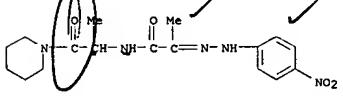
L7 ANSWER 33 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1961:27902 CAPLUS
DOCUMENT NUMBER: 55:27902
ORIGINAL REFERENCE NO.: 55:5503b-h
TITLE: A rearrangement reaction of pyruvoylamino acid thiophenyl esters
AUTHOR(S): Wieland, Theodor; Heinke, Barbel; Shin, Kju Hi
CORPORATE SOURCE: Univ. Frankfurt, Germany
SOURCE: Chemische Berichte (1960), 93, 3027-35
CODEN: CHBEAM; ISSN: 0009-2940
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable

AB Thiophenyl esters (I) of N-pyruvoylamino acids were isomerized in the presence of bases to derivs. of 2-phenylthio-3,6-dioxomorpholine (II). From AcCO2H and the appropriate amino acid derivs. were prepared by the POCl3 method the following AcCONHCHRCOX (III) (R, X, m.p., % yield, and m.p. of the p-nitrophenylhydrazone given): H, p-O2NC6H4CH2O, 93-4°, 40, 214-15° (decomposition); H, SPh (IV), 45°, 25, 222-3°; Me, PhCH2O, 42°, 39, 169°; Me, PhO, 41-2°, 14, 172-6°; Me, p-O2NC6H4O, 117-18°, 23, -; Me, PhS (V), 76-7°, 33, - (2,4-dinitrophenylhydrazone m. 156-8°); Me, p-O2NC6H4S, 107-8°, 15, -; iso-Pr, PhS (VI), 55-6°, 21, -; iso-Bu, PhS (VII), 107-8°, 37, 155-6°; PhCH2, PhCH2O, 67-8°, 33, 150-4°. Carbobenzyloxyglycine with p-O2NC6H4CH2Cl yielded 40% p-O2NC6H4CH2O2CCH2NHOCOCH2Ph (VIII), m. 111-12° (EtOAc-petr. ether). VIII with HBr-AcOH gave 70% VIII.HBr, m. 194° (MeOH-Et2O). Carbobenzyloxyalanine (IX) and PhOH with POCl3 gave 65% Ph ester (X) of IX, m. 83-4° (EtOAc-petr. ether); X.HBr m. 118° (decomposition) (MeOH-Et2O), 86%. IX with piperidine and ClCO2Et yielded 70% piperidide (XI) of IX, m. 69-70° (EtOAc-petr. ether), which with HBr-AcOH yielded 95% alaninepiperidide-HBr, m. 183-4° (MeOH-Et2O). The appropriate amino compound and Me2CHCOCO2H in CH2Cl2 treated with dicyclohexyldicarbodiimide gave the following Me2CHCOCONHCHRCOX (same data given): H, PhCH2O, 49-50° (petr. ether-EtOAc), 36, 99°; H, PhS, 58-9° (petr. ether), 6, 156° (decomposition); Me, PhS (XII), 44-8° (petr. ether-EtOAc), below 10, 165°; PhCH2, PhS, 97° (petr. ether-EtOAc), below 10, 159°. IV (0.01 mole) in 50 cc. tetrahydrofuran and 0.01 mole NaHCO3 treated with H2O to a clean solution and evaporated after 24 hrs. gave 10% 2-Me derivative (XIII) of II, needles, m. 175° (EtOAc). V (0.01 mole) in 50 cc. tetrahydrofuran and 0.01 mole NaHCO3 gave similarly within 10 min. the 2,5-di-Me derivative (XIV) of II, m. 217° (EtOAc). V (0.01 mole) in 50 cc. tetrahydrofuran (or Et2O) and 0.01 mole Et3N kept 24 hrs. gave 38% XIV. XIV with p-O2NC6H4NHNH2 in warm HCl in aqueous MeOH gave the derivative of pyruvoylalanine, m. 245° (decomposition). VI gave in the usual manner in the presence of an equivalent amount of NaHCO3 or Et3N less than 1% 5-iso-Pr derivative of XIII, needles, m. 140-1° (EtOAc-petr. ether). VII isomerized in the presence of NaHCO3 gave 33% 5-iso-Bu derivative of XIII, m. 140-1° (EtOAc-petr. ether). XII gave similarly the 5-methyl-2-isopropyl derivative of II, m. 149-50° (EtOAc-petr. ether). V (0.003 mole) in 50 cc. tetrahydrofuran and 1.0 cc. piperidine kept 26 hrs. at 20°, evaporated in vacuo, the residue triturated with H2O, filtered, the filtrate adjusted to pH 4, extracted continuously with Et2O, the residue dissolved in about 20 cc. H2O, basified with NaHCO3, extracted with

L7 ANSWER 33 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
Et2O, and the ext. worked up gave 27% oily pyruvoylalaninepiperidide; p-nitrophenylhydrazone m. 238°. AcCO2H (0.01 mole) and 0.1 mole dicyclohexylcarbodiimide in 40 cc. tetrahydrofuran concd. in vacuo to 7 cc., cooled to -15°, filtered, evapd., the residue dissolved in H2O, and fractionally pptd. with H2O gave N-pyruvoyl-N,N'-dicyclohexylurea, m. 138-9° (decompn.) (aq. EtOH). The infrared absorption spectra of V and XIV were recorded.

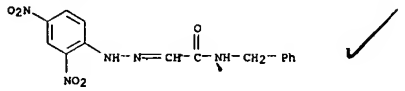
IT 109843-39-2, Piperidine, 1-N-pyruvoylalanyl-, (p-nitrophenyl)hydrazone (preparation of)

RN 109843-39-2 CAPLUS
CN Piperidine, 1-N-pyruvoylalanyl-, (p-nitrophenyl)hydrazone (6CI) (CA INDEX NAME)



L7 ANSWER 34 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1956:77674 CAPLUS
DOCUMENT NUMBER: 50:77674
ORIGINAL REFERENCE NO.: 50:14628f-i,14629a
TITLE: Synthesis of peptides containing the residues of α-hydroxy-α-amino acids
AUTHOR(S): Shemyakin, M. M.; Ravdel, G. A.; Chaman, E. S.
SOURCE: Doklady Akademii Nauk SSSR (1956), 107, 706-9
CODEN: DANKAS; ISSN: 0002-3264
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable
GI For diagram(s), see printed CA Issue.
AB Addition of 2.5 g. Br2 in (CH2Cl)2 at 5° to 5 g. CH2.CO.O.CPh:N, separation of the HBr salt precipitate and addition to the filtrate at 2° over 10 min. of 1.7 g. HOCH2CO2Et in (CH2Cl)2, stirring 1 hr. and diluting with H2O gave 40% PhCONHCH(OH)CO2CH2CO2Et (I), m. 111-13° (from H2O), which shaken with PhCH2NH2 in EtOAc 2 hrs. gave 86% PhCONHCH(OH)CONHCH2Ph, decompose 152-3° (from EtOH), which shaken 3 hrs. with 0.5N aqueous alc. NaOH gave glyoxylic acid benzylamide, isolated as the 2,4-dinitrophenylhydrazone, decompose 185-7° (from EtOH). Heating 0.45 g. H2NCH2CO2Et.HCl with 0.31 g. Et3N in MeCN 5 min. at 50°, cooling and adding 0.6 g. I gave 56% PhCONHCH(OH)CONHCH2CO2Et, m. 127-9° (from H2O), which shaken 3 hrs. with N NaOH gave 63% benzamide, while the filtrate was acidified and treated with 2,4-dinitrophenylhydrazine yielding the 2,4-dinitrophenylhydrazone of N-glyoxylylglycine, m. 214-15° (from EtOH). I (0.25 g.) in EtOAc treated with PhCH2CH(NH2)CO2Et 16 hrs. at room temperature gave oily BzNHCH(OH)CONHCH(CH2Ph)CO2Et, which after alkaline hydrolysis and treatment with 2,4-dinitrophenylhydrazine gave the 2,4-dinitrophenylhydrazone of N-glyoxylylphenylalanine, decompose 198-200° (from EtOH). BzNHCH(CO2H)OCMe3.H2O heated with excess Ac2O 2 hrs. at 90° gave the corresponding oxazolinone which was heated with PhNH2 in (CH2Cl)2 2 hrs. at 30-40° yielding 25% BzNHCH(CONHPh)OCMe3, m. 176-7°. A similar reaction with H2NCH2CO2Et.HCl in the presence of Et3N gave 28% BzNHCH(CONHCH2CO2Et)OCMe3, m. 161-3° (from Me2CO), which shaken 3 hrs. with N NaOH gave BzNHCH(CONHCH2CO2H)OCMe3 monohydrate, m. 104-9° (from H2O). PhCH2CH(NH2)CO2Et in the above coupling gave oily BzNHCH(CONH(CH2Ph)CO2Et)OCMe3, which shaken with N NaOH 3 hrs. gave a crude peptide, purified by repeated precipitation from NaHCO3 with acid; the pure compound m. 64-8°.
IT 15545-36-5, Glyoxylamide, N-benzyl-, 2,4-dinitrophenylhydrazone (preparation of)
RN 15545-36-5 CAPLUS
CN Glyoxylamide, N-benzyl-, 2-[(2,4-dinitrophenyl)hydrazone] (8CI) (CA INDEX NAME)

L7 ANSWER 34 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

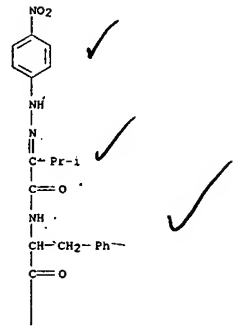


L7 ANSWER 35 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1951:47036 CAPLUS
DOCUMENT NUMBER: 45:47036
ORIGINAL REFERENCE NO.: 45:8021f-i,8022a-f
TITLE: Ergot alkaloids. XX. The polypeptide portion of the ergot alkaloids. 2. Partial alkaline hydrolysis of the ergot alkaloids
AUTHOR(S): Stoll, A.; Hofmann, A.
CORPORATE SOURCE: Sandoz, Basel, Switz.
SOURCE: Helvetica Chimica Acta (1950), 33, 1705-11
CODEN: HCACAV; ISSN: 0018-019X
DOCUMENT TYPE: Journal
LANGUAGE: German
AB cf. preceding abstract Part 16 (preceding abstract) describes the splitting of the ergot alkaloids of the polypeptide type with N2H4. The peptide fraction occurs as an acylated dipeptide. With N2H4, one of the 3 moieties is reduced to a fatty acid. Thus, ergotamine (I) yielded N-(N-propionyl-L-phenylalanyl)-L-proline and ergocornine (II) yielded N-(N-isovaleryl-L-valyl)-L-proline. Careful partial hydrolysis with 1 equivalent of aqueous-alc. KOH was successful in splitting the alkaloid so that the polypeptide fragment contained the keto acid while the lysergic acid precipitated as the amide. Thus I yielded N-(N-pyruvyl-L-phenylalanine)-L-proline; II gave N-(N-dimethylpyruvyl-L-valyl)-L-proline; and ergocristine yielded N-(N-dimethylpyruvyl-L-phenylalanyl)-L-proline. This hydrolysis shows that it is not a simple hydrolysis of an ester or acid amide. The labile part of the alkaloid is transformed into the pyruvic acid residue while its amino group remains bound to the carboxyl of the lysergic acid. The structure of the peptide obtained by this partial hydrolysis was evident on cleaving with concentrated HCl, whereby L-phenylalanine, L-valine, and L-proline were isolated, and by the alkaline hydrolysis which gave pyroracemic acid and dimethylpyroracemic acid. The existence of a keto group in the new acid was proven by the formation of a crystalline p-nitrophenylhydrazone. In these dipeptides, proline is at the end of the peptide chain. Proline has the L-configuration here, while complete hydrolysis of the ergot alkaloid with HCl converts it to the D-form. Also, in the diketopiperazine formed by the thermal splitting of the alkaloid, proline has the D-configuration. The partial hydrolysis also proceeds as expected with the dihydro alkaloid. The complete separation of the stable dihydrolysergamide from the hydrolyzate is easier than the isolation of lysergamide, which rearranges portionwise to the iso-form and in larger quantities is subject to oxidative decomposition The yield of pure hydrolysis product is better from the dihydro alkaloid, so the exptl. work is limited to the hydrolysis of the dihydro derivative When 4 g. dihydroergocristine was refluxed with 8 cc. alc. and 5 cc. 1.44 N KOH, dihydrolysergamide began crystallizing in 5 min.; 7 cc. H2O was added, the refluxing continued 1 hr., the solution cooled, 0.87 g. of the amide filtered off, and more amide removed by 2 extns. of the filtrate with CHCl3 to give

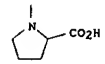
L7 ANSWER 35 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
a total of 1.34 g., [α]20D -125° (C5H5N). The alk. aq. mother liquor was acidified to Congo red with concd. HCl, extd. 3 times with CHCl3, and the CHCl3 ext. concd. to give 1.45 g. crude N-(N-dimethylpyruvyl-L-phenylalanine)-L-proline as a bright yellow sirup, which was dissolved in 10 cc. MeOH, dild. with 20 cc. H2O, concd. in vacuo to 10 cc., let stand a short while at 0°, decanted, the gummy acid amide repptd. again, dried in a high vacuum, dissolved in 50 cc. Et2O, filtered, and the filtrate concd. to dryness to yield a white mass (III) that could not be crystd., [α]20D -36° (EtOH); p-nitrophenylhydrazone, m. 164° (from AcOEt). III (0.2 g.) in 50 cc. concd. HCl was refluxed 16 hrs., the concd. residue dechlorinated with Ag2CO3 in the usual way, and the amino acid residue digested with alc., leaving 60 mg. of L-phenylalanine, m. 230° (from H2O), [α]20D -30° (H2O). The alc.-sol. portion yielded partly racemized L-proline, m. 200-10°, [α]20D -20°, identified by the typical CdCl2 double salt. III (50 mg.) was refluxed 1 hr. with 1.5 cc. 0.5 N KOH, acidified to Congo red, extd. with Et2O, and the Et2O residue converted to the phenylhydrazone, m. 146° (from AcOH-H2O), identical with the phenylhydrazone of dimethylpyroracemic acid. Dihydroergocornine processed similarly gave N-(N-dimethylpyruvyl-L-valyl)-L-proline, [α]20D -65° (alc.); p-nitrophenylhydrazone, m. 232°. Acid hydrolysis as above gave L-valine, [α]20D 25° (20% HCl), and L-proline. Similarly dihydroergotamine gave racemic DL-N-(phenylalanyl)-proline lactam, m. 149°, and a pyruvyl dipeptide [N-(N-pyruvyl-L-phenylalanyl)-L-proline], [α]20D -62° (H2O); p-nitrophenylhydrazone, m. 110-50°.
IT 102875-45-6, Proline, 1-[N-(3-methyl-2-oxobutyryl)-3-phenyl-L-alanyl]-, p-nitrophenylhydrazone (preparation of)
RN 102875-45-6 CAPLUS
CN Proline, 1-[N-(3-methyl-2-oxobutyryl)-3-phenyl-L-alanyl]-, (p-nitrophenyl)hydrazone (6CI) (CA INDEX NAME)

L7 ANSWER 35 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

PAGE 1-A



PAGE 2-A



L7 ANSWER 36 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1928:25209 CAPLUS
DOCUMENT NUMBER: 22:25209
ORIGINAL REFERENCE NO.: 22:2922a-d
TITLE: Imide ring closure in derivatives of diketosuccinic acid phenylosazone
AUTHOR(S): Chattaway, Frederick D.; Humphrey, Wm. G.
CORPORATE SOURCE: Queen's College, Oxford, UK
SOURCE: Journal of the Chemical Society (1928) 1094-8
CODEN: JCSOA9; ISSN: 0368-1769
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable

AB Diketosuccinic anhydride phenylosazone (I), fused with CO(NH2)2 for 10 min., gives diketosuccinimide phenylosazone, orange-yellow, m. 189°; it is stable towards HCl but with boiling aqueous NaOH gives 4,5-diketo-1-phenylpyrazoline-3-carboxylic acid 4-phenylhydrazone. I and PhCH2NH2 in Et2O give the benzylamine salt of benzyldiketosuccinamic acid phenylosazone, light yellow, m. 165° (decomposition); Ac2O gives I; AcOH or HCl gives benzyldiketosuccinimide phenylosazone, orange-yellow, m. 179°. Dibenzylamine salt, light yellow, m. 161-2° (decomposition), of dibenzyldiketosuccinamic acid phenylosazone, orange-yellow, m. 180°. PhNH2 and I, boiled 10 min., give a mixture of diketosuccinanilic acid phenylosazone, orange-yellow, m. 201° (decomposition), crysts. with 1 AcOH and m. 135-200°, according to rate of heating; the AcOH is removed by washing with Et2O or EtOH; and diketosuccinanil phenylosazone, orange-red, m. 252° (decomposition). PhNHNH2 and I in AcOH give diketosuccinophenylhydrazide phenylosazone, orange-yellow, m. 270° (decomposition); the phenylmethylhydrazide derivative, bright yellow, m. 243.5° (decomposition). The p-tolylhydrazone (corresponding to I) and PhNH2, boiled 1 min., give diketosuccinanil p-tolylhydrazone, yellow, m. 199° (decomposition); 2,4-dichlorophenylhydrazone, orange-yellow, m. 308° (decomposition); 2,4-dibromophenylhydrazone, orange, m. 309° (decomposition). Diketosuccinophenylhydrazide o-tolylphenylosazone, orange-yellow, m. 250° (decomposition); 2,4-dibromophenylosazone, orange-yellow, m. 295° (decomposition).

IT 856065-81-1, Succinamic acid, N,N-dibenzyldiketo-, phenylosazone (preparation of)

RN 856065-81-1 CAPLUS

CN Succinamic acid, N,N-dibenzyldiketo-, phenylosazone (3CI) (CA INDEX NAME)